

The Road Inventory of Canyon de Chelly National Monument CACH – 7390 Cycle 4







Prepared By: Federal Highway Administration Road Inventory Program Cycle 4



Canyon de Chelly National Monument in Arizona





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Canyon de Chelly National Monument



Section 1 Introduction

INTRODUCTION

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

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

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

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

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

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

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

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

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

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

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

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

The FHWA RIP Team

FHWA/EFLHD 21400 Ridgetop Circle Sterling, VA 20166 (703) 404-6371 FHWA/CFLHD 12300 West Dakota Ave. Lakewood, CO 80228 (720) 963-3560

Canyon de Chelly National Monument



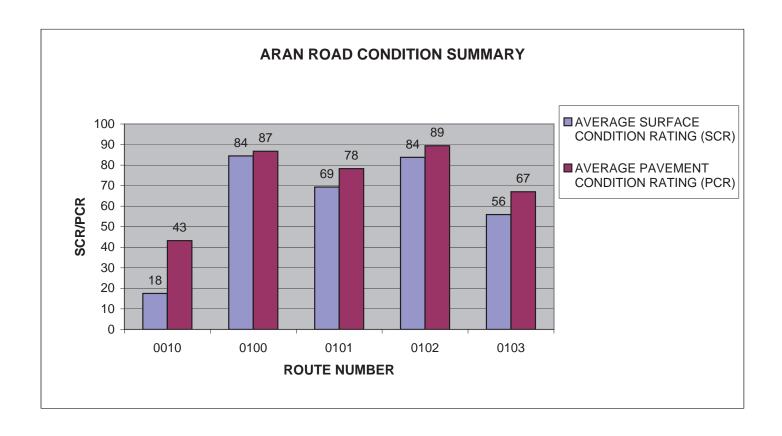
Section 2
Park Summary Information

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

		Р	avement C	Condition R	ating (PCF	₹)			
	Poor (<=60)	Fair (6	1-84)	Good	(85-94)	Excellent	(95-100)	TOTAL
F.C.	MILES	%	MILES	%	MILES	%	MILES	%	MILES
1	9.04	37.73%	1.96	8.18%	0.34	1.42%	0.12	0.50%	11.46
2	3.16	13.19%	5.95	24.83%	2.38	9.93%	0.89	3.71%	12.38
3									
4									
5			0.12	0.50%					0.12
6									
7									
8									
Totals	12.20	50.92%	8.03	33.51%	2.72	11.35%	1.01	4.21%	23.96

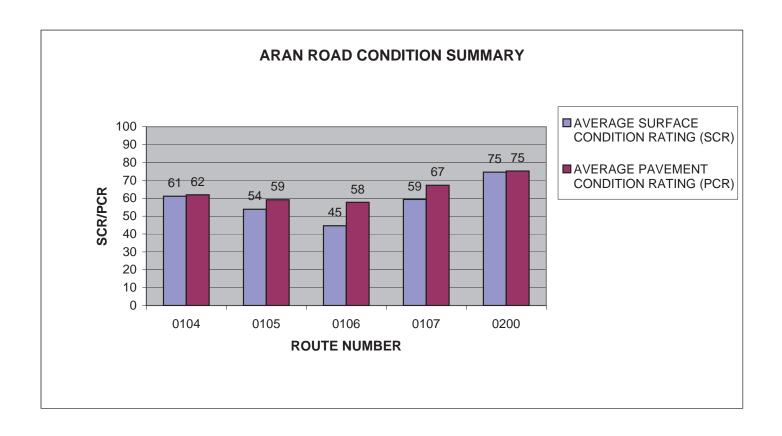
CACH: ARAN ROAD CONDITION SUMMARY

ROUTE NUMBER	ROUTE NAME	FUNCT CLASS	ROUTE LENGTH		AVERAGE SURFACE CONDITION RATING (SCR)	AVERAGE PAVEMENT CONDITION RATING (PCR)
0010	INDIAN ROUTE 7 (SOUTH RIM DRIVE)	1	12.96	ASPHALT	18	43
0100	LODGE CAMPGROUND ACCESS ROAD	2	0.46	ASPHALT	84	87
0101	SPIDER ROCK OVERLOOK ROAD	2	4.48	ASPHALT	69	78
0102	SLIDING HOUSE OVERLOOK ROAD	2	1.61	ASPHALT	84	89
0103	WHITE HOUSE OVERLOOK ROAD	2	0.58	ASPHALT	56	67



CACH: ARAN ROAD CONDITION SUMMARY

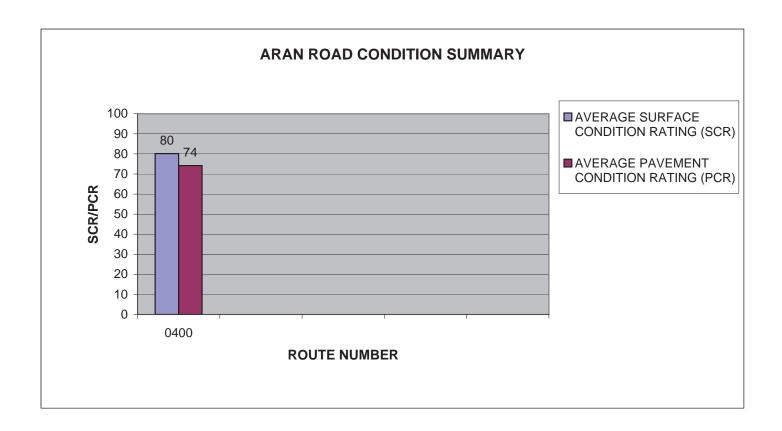
ROUTE		FUNCT	ROUTE	SURFACE	AVERAGE SURFACE CONDITION	AVERAGE PAVEMENT CONDITION
NUMBER	ROUTE NAME	CLASS	LENGTH	TYPE	RATING (SCR)	RATING (PCR)
0104	MASSACRE CAVE OVERLOOK ROAD	2	1.42	ASPHALT	61	62
0105	MUMMY CAVE OVERLOOK ROAD	2	0.94	ASPHALT	54	59
0106	ANTELOPE HOUSE OVERLOOK ROAD	2	2.03	ASPHALT	45	58
0107	LEDGE RUIN ROAD	2	0.76	ASPHALT	59	67
0200	CAMPGROUND/MAINTENANCE ACCESS ROAD	2	0.1	ASPHALT	75	75



Data Collected 09/15/2008

CACH: ARAN ROAD CONDITION SUMMARY

DOLUTE		FINOT	DOLLEE	CLIDEACE	AVERAGE SURFACE	AVERAGE PAVEMENT
ROUTE		FUNCT	ROUTE	SURFACE	CONDITION	CONDITION
NUMBER	ROUTE NAME	CLASS	LENGTH	TYPE	RATING (SCR)	RATING (PCR)
0400	PARK MAINTENANCE ACCESS ROAD	5	0.12	ASPHALT	80	74



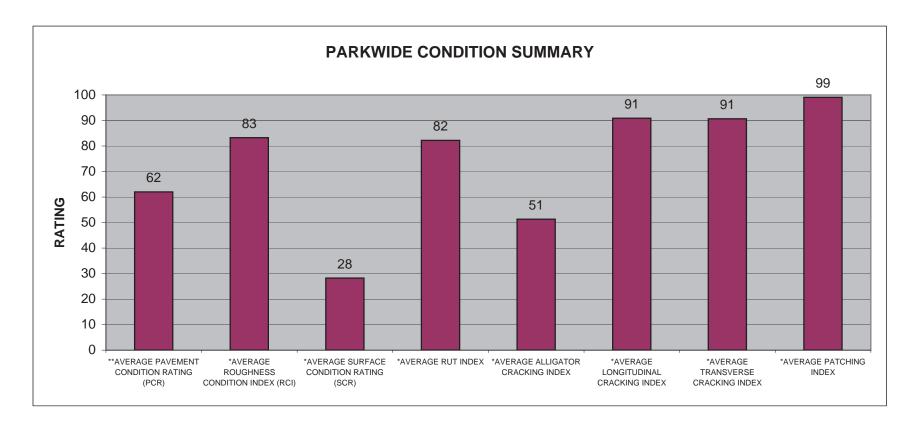
Data Collected 09/15/2008

CACH: PARKWIDE CONDITION SUMMARY

**AVERAGE	*AVERAGE	*AVERAGE		*AVERAGE	*AVERAGE	*AVERAGE	
PAVEMENT	ROUGHNESS	SURFACE		ALLIGATOR	LONGITUDINAL	TRANSVERSE	*AVERAGE
CONDITION	CONDITION	CONDITION	*AVERAGE	CRACKING	CRACKING	CRACKING	PATCHING
RATING (PCR)	INDEX (RCI)	RATING (SCR)	RUT INDEX	INDEX	INDEX	INDEX	INDEX
62	83	28	82	51	91	91	99

^{**} PCR Index is based on all ARAN-driven roads, parking areas, and manually rated routes.

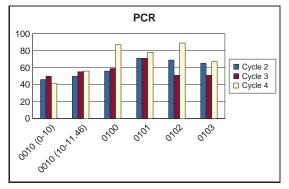
^{*} Index values are based on ARAN-driven roads only.

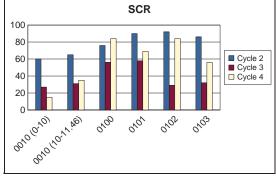


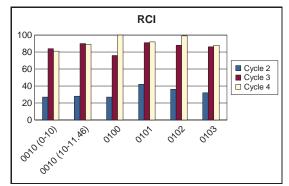
Data Collected 09/15/2008 2-5

CACH CYCLE 2 vs CYCLE 3 vs CYCLE 4 CONDITION COMPARISONS

					EMEN' RATIN		NDITION CR)	SURFACE CONDITION RATING (SCR)				R			CONDITION (RCI)	ON
ROUTE NUMBER	PAVED MILES	FROM MILEPOST	TO MILEPOST	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	COMMENT
0010	10.00	0.00	10.00	46	50	41	-18%	60	27	15	-44%	27	84	81	-4%	
0010	1.46	10.00	11.46	50	55	56	+2%	65	31	35	+13%	28	90	89	-1%	
0100	0.46	0.00	0.46	56	59	87	+47%	76	56	84	+50%	27	76	100	+32%	
0101	4.48	0.00	4.48	71	71	78	+10%	90	58	69	+19%	42	91	92	+1%	
0102	1.61	0.00	1.61	69	51	89	+75%	92	29	84	+190%	36	88	99	+12%	
0103	0.58	0.00	0.58	65	51	67	+31%	86	32	56	+75%	32	86	88	+2%	





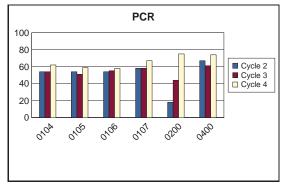


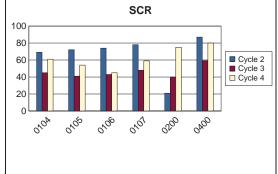
Cycle 4 Data Collected 9/15/2008 - 9/15/2008

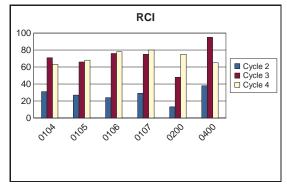
Page 2 - 6

CACH CYCLE 2 vs CYCLE 3 vs CYCLE 4 CONDITION COMPARISONS

					EMENT RATIN		NDITION CR)	SURFACE CONDITION RATING (SCR)				R			CONDITIC (RCI)	ON
ROUTE NUMBER	PAVED MILES	FROM MILEPOST	TO MILEPOST	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	CYCLE 2	CYCLE 3	CYCLE 4	PERCENT CHANGE	COMMENT
0104	1.42	0.00	1.42	54	54	62	+15%	69	45	61	+36%	31	71	63	-11%	
0105	0.94	0.00	0.94	54	51	59	+16%	72	41	54	+32%	27	66	68	+3%	
0106	2.03	0.00	2.03	54	55	58	+5%	74	43	45	+5%	24	76	78	+3%	
0107	0.76	0.00	0.76	58	58	67	+16%	78	48	59	+23%	29	75	80	+7%	
0200	0.10	0.00	0.10	18	44	75	+70%	21	40	75	+88%	13	48	75	+56%	
0400	0.13	0.00	0.13	67	61	74	+21%	87	59	80	+36%	38	95	65	-32%	







Cycle 4 Data Collected 9/15/2008 - 9/15/2008

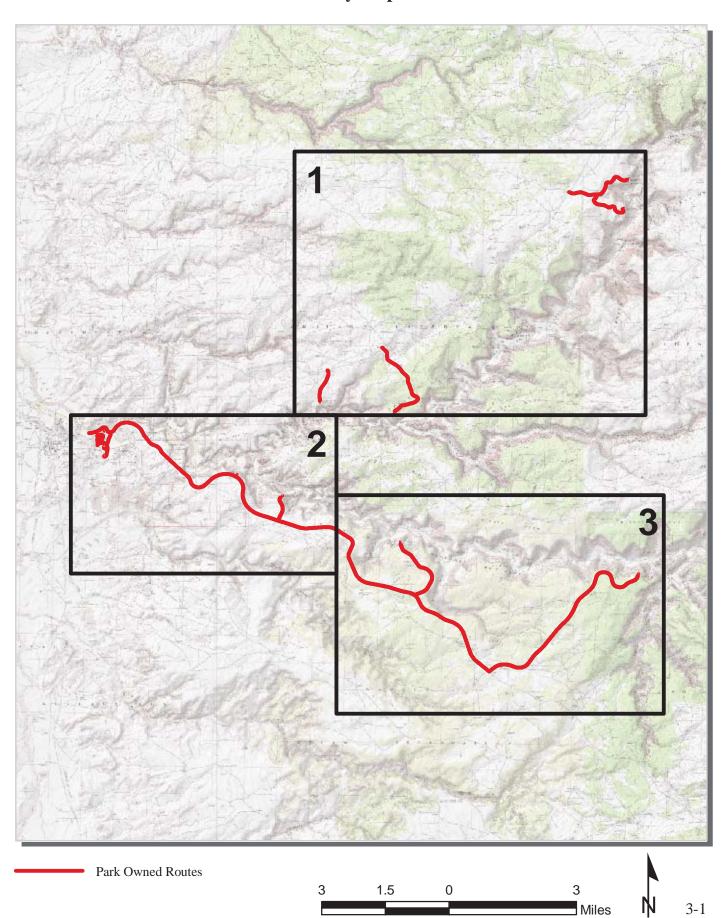
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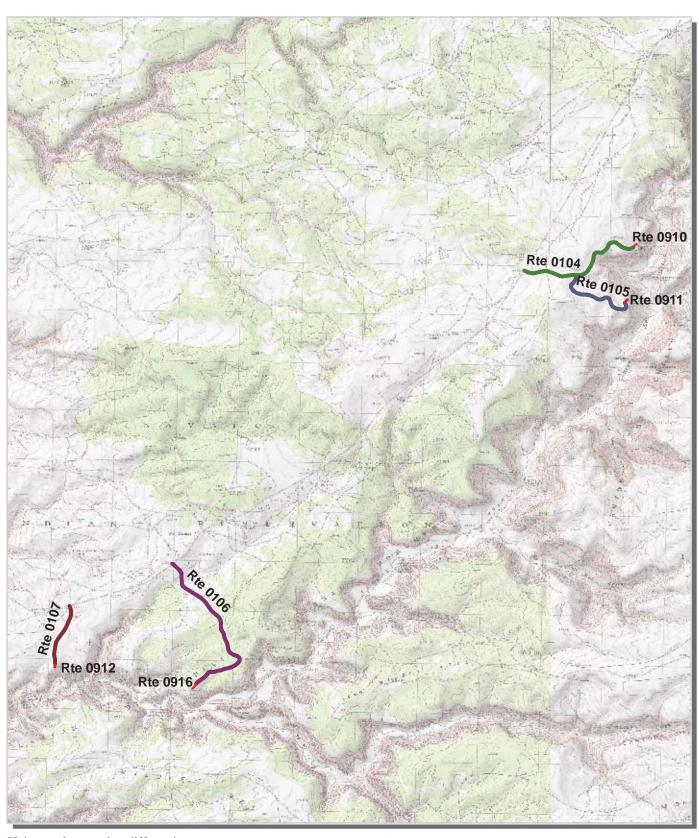


Section 3
Park Route Location / Condition
Maps

Canyon de Chelly National Monument Route Location Map Key Map

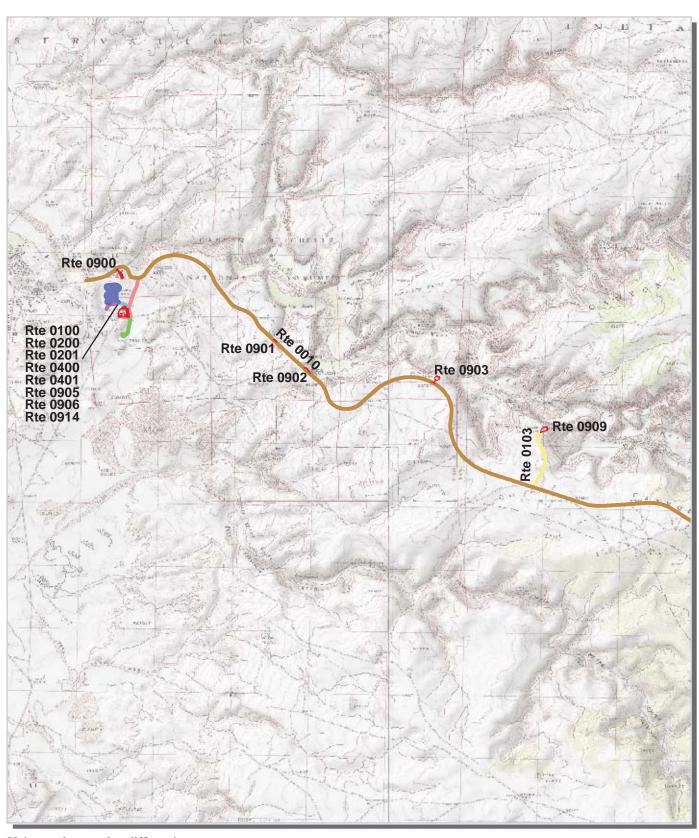


Canyon de Chelly National Monument Route Location Map Area 1



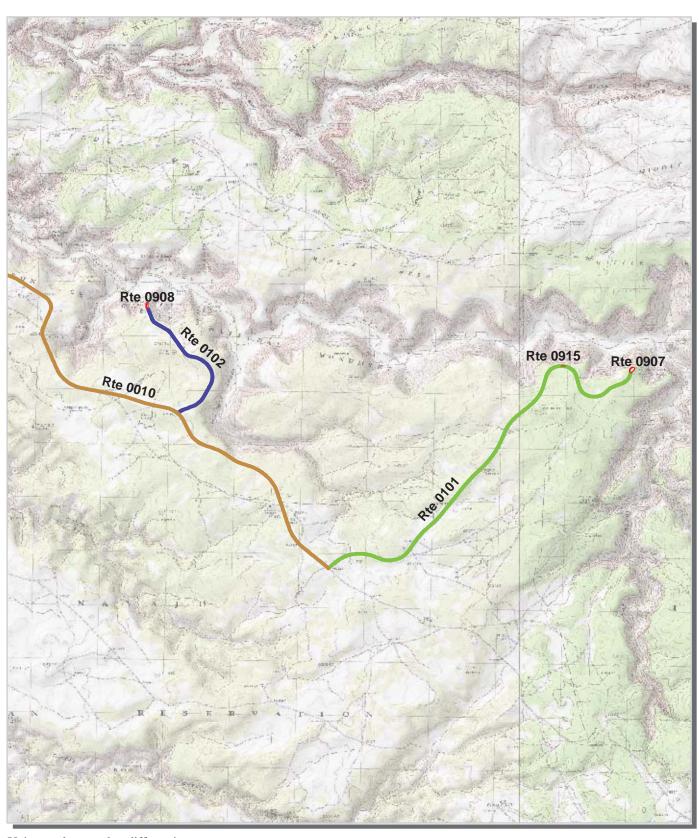
Unique colors used to differentiate routes

Canyon de Chelly National Monument Route Location Map Area 2



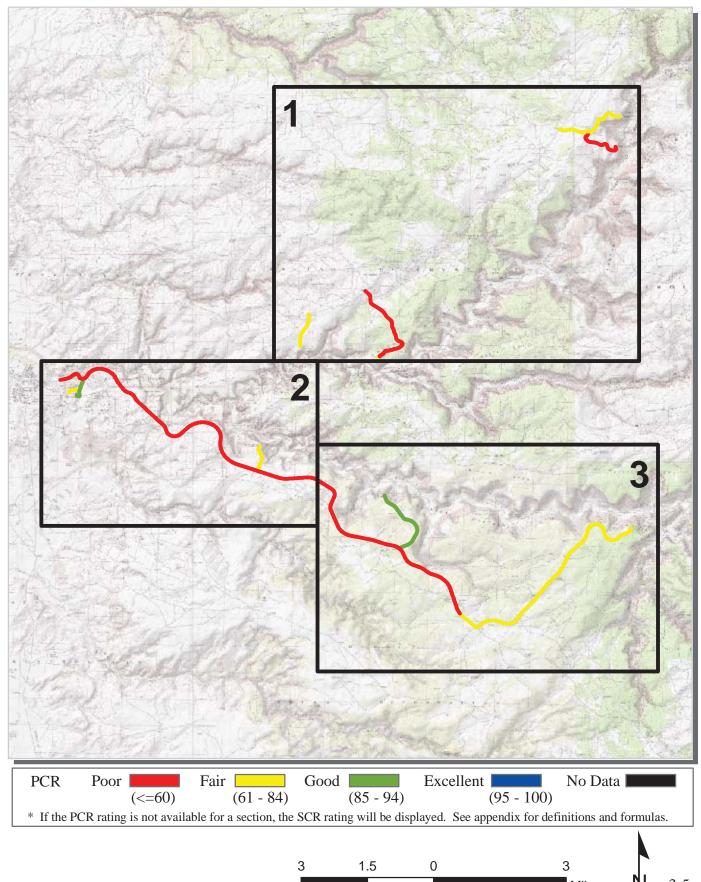
Unique colors used to differentiate routes

Canyon de Chelly National Monument Route Location Map Area 3

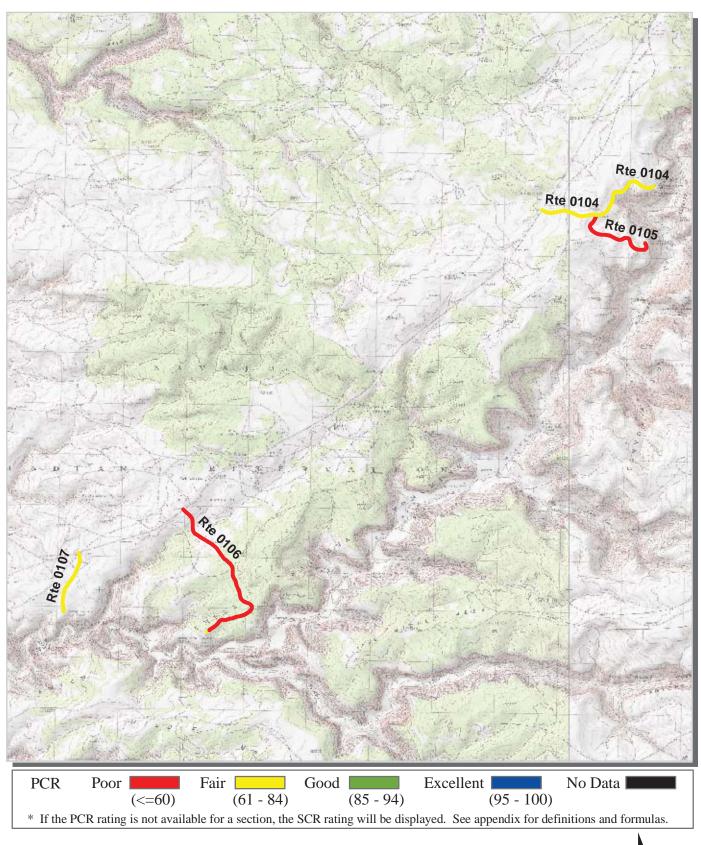


Unique colors used to differentiate routes

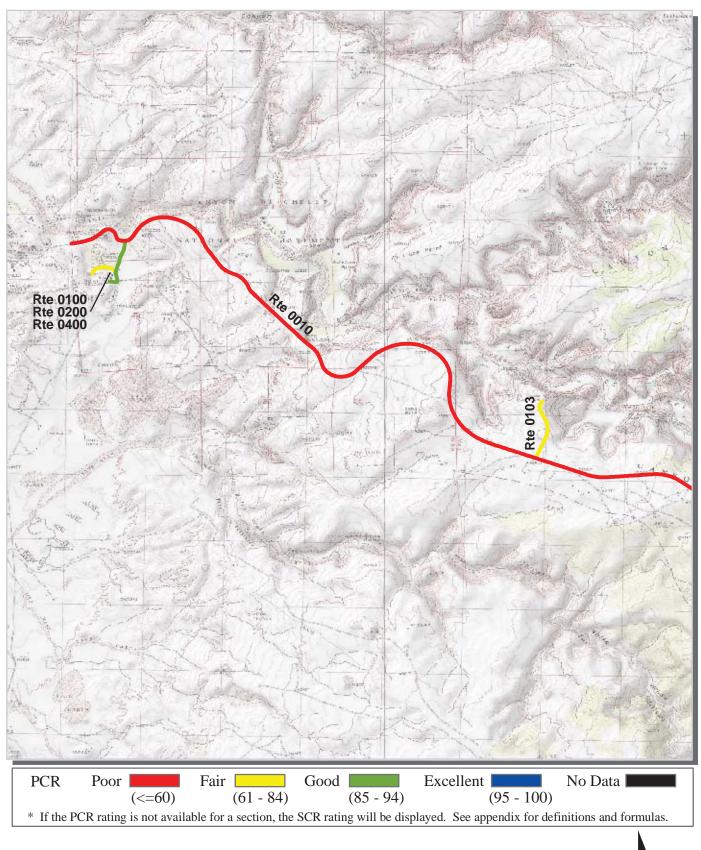
Canyon de Chelly National Monument Route Condition Map PCR - Mile by Mile Key Map



Canyon de Chelly National Monument Route Condition Map PCR - Mile by Mile Area 1



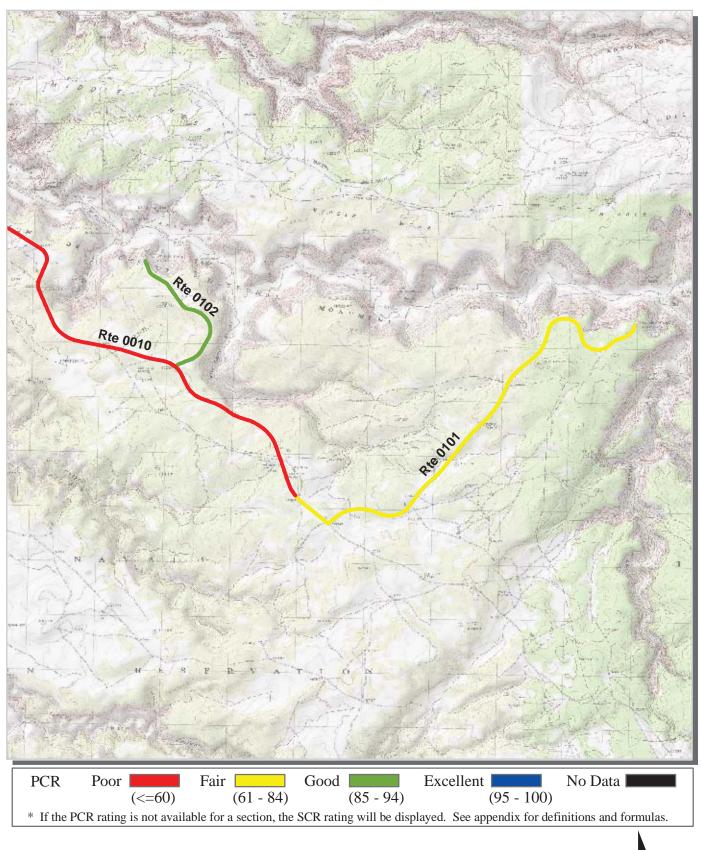
Canyon de Chelly National Monument Route Condition Map PCR - Mile by Mile Area 2



3-7

0.5

Canyon de Chelly National Monument Route Condition Map PCR - Mile by Mile Area 3



Canyon de Chelly National Monument



Section 4
Park Route Inventory

Road Inventory Program 06/24/2009

(Numerical By Route #)

Shading Color Key: Red text denotes approx. mileage White = Paved Routes, ARAN Driven

Yellow = Unpaved Routes, ARAN not Driven

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

Blue = All Paved Parking Areas

Green = All Unpaved Parking Areas

Page 1 of 5

Grey = Paved Routes, ARAN not Driven

Black = Paved State, Local or Private non-NPS Routes, ARAN Driven

=

= Concession Route Flag ON

CACH

CANYON DE CHELLY NATIONAL MONUMENT

				-	741						1		1	
Rte. No.	FMSS No.	Concess Route	Route Name	Route De From	scription To	Maint. District	Paved Miles	Un- Paved Miles	Total Route Length	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type	Area Maps
0010	68881		INDIAN ROUTE 7 (SOUTH RIM DRIVE)	FROM WEST PARK BOUNDARY	TO EAST PARK BOUNDARY	SOUTH RIM	11.460	1.500	12.960	1		0	AS	2,3
0011	68710		CANYON DEL MUERTO ROAD	FROM ROUTE 0012 (CDC CANYON ROAD)	TO END	N/A	0.000	18.000	18.000	1		0	SA	
0012	68961		CDC CANYON ROAD	FROM ROUTE 0010 (INDIAN ROUTE 7 (SOUTH RIM DRIVE)) AT MP 0.52 (ON LEFT)	TO END	N/A	0.000	12.000	12.000	1		0	SA	
0100	68942		LODGE CAMPGROUND ACCESS ROAD	FROM ROUTE 0010 (INDIAN ROUTE 7 (SOUTH RIM DRIVE)) AT MP 0.52 (ON RIGHT)	TO ROUTE 0906 (THUNDERBIRD LODGE PARKING)	HEADQUARTERS	0.460	0.000	0.460	2		0	AS	2
0101	77097		SPIDER ROCK OVERLOOK ROAD	FROM ROUTE 0010 (INDIAN ROUTE 7 (SOUTH RIM DRIVE)) AT MP 11.44 (ON LEFT)	TO ROUTE 0907 (SPIDER ROCK OVERLOOK PARKING)	SOUTH RIM	4.480	0.000	4.480	2		0	AS	3
0102	68885		SLIDING HOUSE OVERLOOK ROAD	FROM ROUTE 0010 (INDIAN ROUTE 7 (SOUTH RIM DRIVE)) AT MP 9.04 (ON LEFT)	TO ROUTE 0908 (SLIDING HOUSE OVERLOOK PARKING)	SOUTH RIM	1.610	0.000	1.610	2		0	AS	3
0103	68887		WHITE HOUSE OVERLOOK ROAD	FROM ROUTE 0010 (INDIAN ROUTE 7 (SOUTH RIM DRIVE)) AT MP 5.36 (ON LEFT)	TO ROUTE 0909 (WHITE HOUSE OVERLOOK PARKING)	SOUTH RIM	0.580	0.000	0.580	2		0	AS	2
0104	68831		MASSACRE CAVE OVERLOOK ROAD	FROM INDIAN ROUTE 64 (NORTH RIM DRIVE)	TO ROUTE 0910 (MASSACRE CAVE OVERLOOK PARKING)	NORTH RIM	1.420	0.000	1.420	2		0	AS	1
0105	68837		MUMMY CAVE OVERLOOK ROAD	FROM ROUTE 0104 (MASSACRE CAVE OVERLOOK ROAD) AT MP 0.56 (ON RIGHT)	TO ROUTE 0911 (MUMMY CAVE OVERLOOK PARKING)	NORTH RIM	0.940	0.000	0.940	2		0	AS	1
0106	68824		ANTELOPE HOUSE OVERLOOK ROAD	FROM INDIAN ROUTE 64 (NORTH RIM DRIVE)	TO ROUTE 0916 (ANTELOPE HOUSE OVERLOOK PARKING)	NORTH RIM	2.030	0.000	2.030	2		0	AS	1
0107	68822		LEDGE RUIN ROAD	FROM INDIAN ROUTE 64 (NORTH RIM DRIVE)	TO ROUTE 0912 (LEDGE RUIN PARKING)	NORTH RIM	0.760	0.000	0.760	2		0	AS	1
0200	68947		CAMPGROUND/MAINTE NANCE ACCESS ROAD	FROM ROUTE 0100 (LODGE CAMPGROUND ACCESS ROAD) AT MP 0.30 (ON RIGHT)	TO ROUTE 0201 (COTTONWOOD CAMPGROUND LOOP) ON RIGHT AND ROUTE 0400	HEADQUARTERS	0.100	0.000	0.100	2		0	AS	2
0201	79402		COTTONWOOD CAMPGROUND LOOP	FROM ROUTE 0200 (CAMPGROUND/MAINTENAN CE ACCESS ROAD) AT MP 0.08 (ON RIGHT)	THROUGH CAMPGROUND	HEADQUARTERS	0.940	0.000	0.940	3		74,448	AS	2

Road Inventory Program 06/24/2009

(Numerical By Route #)

Shading Color Key: Red text denotes approx. mileage

White = Paved Routes, ARAN Driven Yellow = Unpaved Routes, ARAN not Driven

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Blue = All Paved Parking Areas

Green = All Unpaved Parking Areas

Page 2 of 5

Grey = Paved Routes, ARAN not Driven

Black = Paved State, Local or Private non-NPS Routes, ARAN Driven

= Concession Route Flag ON

CACH

CANYON DE CHELLY NATIONAL MONUMENT

Rte.	FMSS	ess	Route Name	Route Description From To		Maint.	Paved	Un- Paved	Total Route	Func.	Rte.	Manual	Surf.	Area
No.	No.	Concess	Route Name	From	То	District	Miles	Miles	Length	Class	Lanes	Rated SQ/FT	Туре	Maps
0400	68948		PARK MAINTENANCE ACCESS ROAD	FROM ROUTE 0200 (CAMPGROUND/MAINTENAN CE ACCESS ROAD) AT END	TO ROUTE 0913 (MAINTENANCE AREA PARKING)	HEADQUARTERS	0.120	0.000	0.120	5		0	AS	2
0401	68951		RESIDENCE ROAD	FROM ROUTE 0100 (LODGE CAMPGROUND ACCESS ROAD) AT MP 0.40 (ON LEFT)	TO END OF LOOP	HEADQUARTERS	0.240	0.000	0.240	5		21,542	AS	2
0900	68952		VISITOR CENTER PARKING	FROM ROUTE 0010 (INDIAN ROUTE 7 (SOUTH RIM DRIVE)) AT MP 0.27 (ON RIGHT)	TO PARKING	HEADQUARTERS	0.000	0.000	0.000			38,804	AS	2
0901	68856		TUNNEL OVERLOOK PARKING	FROM ROUTE 0010 (INDIAN ROUTE 7 (SOUTH RIM DRIVE)) AT MP 2.13 (ON LEFT)	TO ROUTE 0010 (INDIAN ROUTE 7 (SOUTH RIM DRIVE)) AT MP 2.17 (ON LEFT)	SOUTH RIM	0.000	0.000	0.000			9,937	AS	2
0902	68858		TSEGI OVERLOOK PARKING	FROM ROUTE 0010 (INDIAN ROUTE 7 (SOUTH RIM DRIVE)) AT MP 2.51 (ON LEFT)	TO ROUTE 0010 (INDIAN ROUTE 7 (SOUTH RIM DRIVE)) AT MP 2.56 (ON LEFT)	SOUTH RIM	0.000	0.000	0.000			13,362	AS	2
0903	68861		JUNCTION OVERLOOK PARKING	FROM ROUTE 0010 (INDIAN ROUTE 7 (SOUTH RIM DRIVE)) AT MP 3.89 (ON LEFT)	TO PARKING	SOUTH RIM	0.000	0.000	0.000			23,991	AS	2
0904	79403		COTTONWOOD PICNIC AREA PARKING	FROM ROUTE 0200 (CAMPGROUND/MAINTENAN CE ACCESS ROAD) AT MP 0.03 (ON RIGHT)	TO ROUTE 0200 (CAMPGROUND/MAINTENAN CE ACCESS ROAD) AT MP 0.05 (ON RIGHT)	HEADQUARTERS	0.000	0.000	0.000			0	GR	
0905	113925		COTTONWOOD CAMPGROUND RV DUMP STATION	FROM ROUTE 0201 (COTTONWOOD CAMPGROUND LOOP)	TO PARKING	HEADQUARTERS	0.000	0.000	0.000			2,079	AS	2
0906	68955		THUNDERBIRD LODGE PARKING	FROM ROUTE 0100 (LODGE CAMPGROUND ACCESS ROAD) AT MP 0.31 (ON RIGHT)	TO ROUTE 0100 (LODGE CAMPGROUND ACCESS ROAD) AT MP 0.46 (ON RIGHT)	HEADQUARTERS	0.000	0.000	0.000			107,320	AS	2
0907	68869		SPIDER ROCK OVERLOOK PARKING	FROM ROUTE 0101 (SPIDER ROCK OVERLOOK ROAD) AT END	TO PARKING	SOUTH RIM	0.000	0.000	0.000			23,955	AS	3
0908	68865		SLIDING HOUSE OVERLOOK PARKING	FROM ROUTE 0102 (SLIDING HOUSE OVERLOOK ROAD) AT END	TO PARKING	SOUTH RIM	0.000	0.000	0.000			24,537	AS	3
0909	68862		WHITE HOUSE OVERLOOK PARKING	FROM ROUTE 0103 (WHITE HOUSE OVERLOOK ROAD) AT END	TO PARKING	SOUTH RIM	0.000	0.000	0.000			26,270	AS	2
	L	J					1		I		I]	

Road Inventory Program 06/24/2009 (Numerical By Route #) Page 3 of 5

Shading Color Key: Red text denotes approx. mileage White = Paved Routes, ARAN Driven

Yellow = Unpaved Routes, ARAN not Driven

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CACH

CANYON DE CHELLY NATIONAL MONUMENT

Rte. No.	FMSS No.	Concess	Route Name	Route Des	cription To	Maint. District	Paved Miles	Un- Paved Miles	Total Route Length	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type	Area Maps
0910	68877		MASSACRE CAVE OVERLOOK PARKING	FROM ROUTE 0104 (MASSACRE CAVE OVERLOOK ROAD) AT END	TO PARKING	NORTH RIM	0.000	0.000	0.000			23,548	AS	1
0911	77090		MUMMY CAVE OVERLOOK PARKING	FROM ROUTE 0105 (MUMMY CAVE OVERLOOK ROAD) AT END	TO PARKING	NORTH RIM	0.000	0.000	0.000			31,350	AS	1
0912	68873		LEDGE RUIN PARKING	FROM ROUTE 0107 (LEDGE RUIN ROAD) AT END	TO PARKING	NORTH RIM	0.000	0.000	0.000			29,796	AS	1
0913	113930		MAINTENANCE AREA PARKING	FROM ROUTE 0400 (PARK MAINTENANCE ACCESS ROAD) AT END	TO PARKING	HEADQUARTERS	0.000	0.000	0.000			0	GR	
0914	68956		CANYON TOUR LOADING AREA	FROM ROUTE 0100 (LODGE CAMPGROUND ACCESS ROAD) AT MP 0.33 (ON RIGHT)	TO ROUTE 0100 (LODGE CAMPGROUND ACCESS ROAD) AT MP 0.36 (ON RIGHT)	HEADQUARTERS	0.000	0.000	0.000			4,888	AS	2
0915	68868		FACE ROCK OVERLOOK PARKING	ADJACENT TO ROUTE 0101 (SPIDER ROCK OVERLOOK ROAD) AT MP 3.52 (ON LEFT)		SOUTH RIM	0.000	0.000	0.000			2,622	AS	3
0916	68874		ANTELOPE HOUSE OVERLOOK PARKING	FROM ROUTE 0106 (ANTELOPE HOUSE OVERLOOK ROAD) AT END	TO PARKING	NORTH RIM	0.000	0.000	0.000			32,761	AS	1

Road Inventory Program 06/24/2009 (Numerical By Route #) Page 4 of 5

Shading Color Key: Red text denotes approx. mileage White = Paved Routes, ARAN Driven

Yellow = Unpaved Routes, ARAN not Driven

Blue = All Paved Parking Areas

Green = All Unpaved Parking Areas

Grey = Paved Routes, ARAN not Driven

Black = Paved State, Local or Private non-NPS Routes, ARAN Driven

= Concession Route Flag ON

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

	SUMMARY TO	TALS FOR	CANYON	DE CHEL	LY NATION	AL MONU	<u>MENT</u>			
ROUTE TOTAL	<u>s</u>		LANE MIL	E TOTAL	<u>s</u>		CONC	ESSION T	<u>OTALS</u>	
ARAN Driven Route Miles	23.960	ARAI	N Driven Lane	Miles	55.824		Concessi	ion Paved Rout	e Miles	0.000
All Paved Route Miles	25.140	Paved Parking Lane Miles			6.805		Concession	Unpaved Rout	e Miles	0.000
All Unpaved Route Miles	31.500	Pav	ed MRR Lane	Miles	1.653	С	Concession Pav	ed Parking Are	a SQFT	0
TOTAL PARK ROUTE MILES	56.640	TOTAL PAVED LANE MILES 64.28			64.282	Con	cession Unpav	ed Parking Are	a SQFT	0
All Manually Rated Roads (SQFT)	95,990						Conces	sion Paved MR	R SQFT	0
PARKING AREA TO	TALS			<u>v</u>	/EIGHTED /	VERAGE	PARK VAL	.UES		
All Paved Parking (SQFT)	395,219	PCR (Rating)	SCR (Rating)	RCI (Rating)	RUT (Index)	AC (Index)	LC (Index)	TC (Index)	PATCH (Index)	PCR (Concession)
All Unpaved Parking (SQFT) TOTAL ALL PARKING (SQFT)	395,219	62.02 28.23 83.26 82				51.32 90.88 90.67 99.0				N/A

Road Inventory Program 06/24/2009 (Numerical By Route #) Page 5 of 5

Shading Color Key: Red text denotes approx. mileage

Class 8

White = Paved Routes, ARAN Driven

Yellow = Unpaved Routes, ARAN not Driven

Blue = All Paved Parking Areas

Green = All Unpaved Parking Areas

Grey = Paved Routes, ARAN not Driven

Black = Paved State, Local or Private non-NPS Routes, ARAN Driven

= Concession Route Flag ON

General Park Road Functional Classification Table

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

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

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

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

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

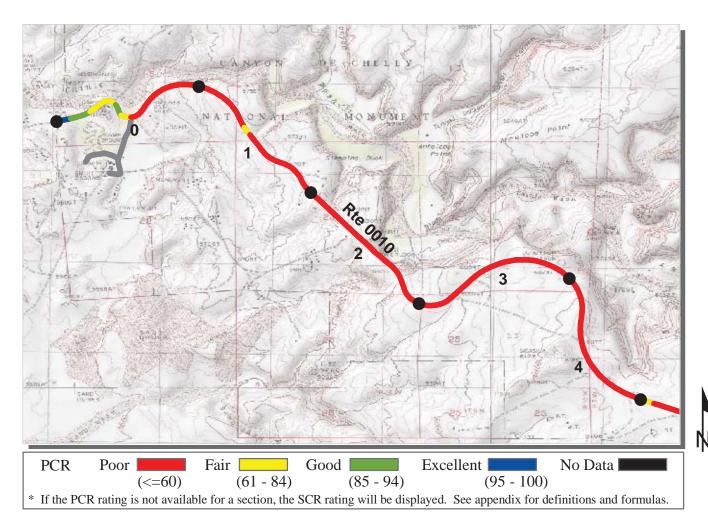
Surface Type Abbreviations:

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

Canyon de Chelly National Monument



Section 5
Paved Route Condition Rating Sheets
(CRS)



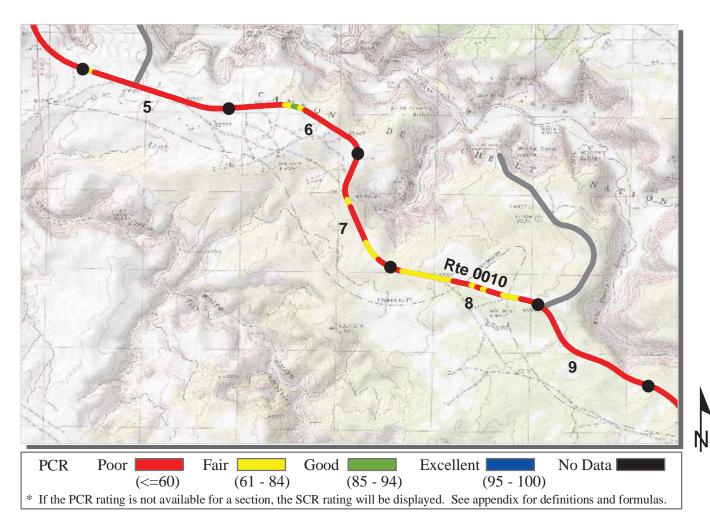
COLLECTED:

9/15/2008

ROUTE: 0010 INDIAN ROUTE 7 (SOUTH RIM DRIVE) CACH: CANYON DE CHELLY NATIONAL MONUMENT

INTERMOUNTAIN REGION			TOTAL	LENGTH:	11.46 Miles
Section Number	0	1	2	3	4
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
Traffic AADT SADT ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	27	24	23	23	25
Lane Width (ft)	11	11	11	11	12
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
Roadway Condition Information					
SCR (Surface Condition Rating)	40	11	9	1	9
PCR (Pavement Condition Rating)	57	38	36	25	34
Distress Index Values					
Alligator Cracking Index	54	39	34	3	22
Longitudinal Cracking Index	94	89	89	98	92
Tranverse Cracking Index	89	83	83	95	91
Patching Index	100	98	93	100	95
Rutting Index	85	84	88	82	82
Roughness Condition Index (RCI)	83	79	76	63	72

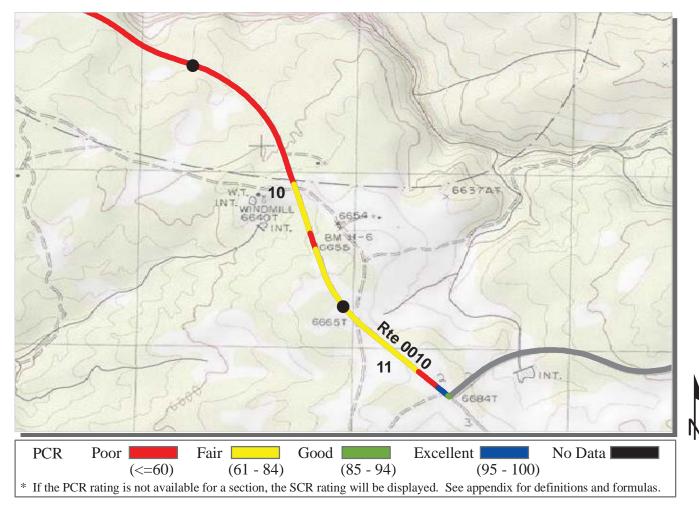
NC - Not Collected 5-1



ROUTE: 0010 INDIAN ROUTE 7 (SOUTH RIM DRIVE) CACH: CANYON DE CHELLY NATIONAL MONUMENT

			CO	LLECTED:	9/15/2008
INTERMOUNTAIN REGION			TOTAL	LENGTH:	11.46 Miles
Section Number	5	6	7	8	9
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
Traffic AADT SADT ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	23	22	23	23	24
Lane Width (ft)	11	11	11	11	12
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
Roadway Condition Information					
SCR (Surface Condition Rating)	9	17	16	36	3
PCR (Pavement Condition Rating)	38	44	46	58	37
Distress Index Values					
Alligator Cracking Index	33	41	32	72	14
Longitudinal Cracking Index	89	91	92	90	93
Tranverse Cracking Index	90	89	90	88	93
Patching Index	100	100	100	100	100
Rutting Index	76	82	85	85	74
Roughness Condition Index (RCI)	81	85	90	93	87

NC - Not Collected 5-2

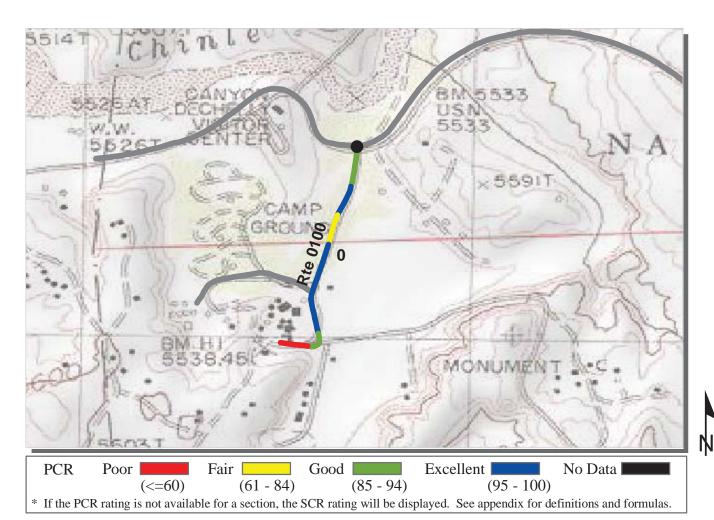


COLLECTED:

9/15/2008

ROUTE: 0010 INDIAN ROUTE 7 (SOUTH RIM DRIVE) CACH: CANYON DE CHELLY NATIONAL MONUMENT

INTERMOUNTAIN REGION			TOTAL	LENGTH:	11.46 Miles
Section Number	10	11			
Section Length (mi)	1.00	0.46			
Traffic AADT SADT ADT Date	Click on PRO	nay be found at v OGRAMS / NPS I parks have traft	Traffic Data	t.gov	
Cross Section Information					
Number of Lanes	2	2			
Paved Width (ft)	26	27			
Lane Width (ft)	12	11			
Shoulder Width Right (ft)	NC	NC			
Shoulder Width Left (ft)	NC	NC			
Roadway Condition Information					
SCR (Surface Condition Rating)	26	53			
PCR (Pavement Condition Rating)	50	71			
Distress Index Values					
Alligator Cracking Index	46	100			
Longitudinal Cracking Index	88	75			
Tranverse Cracking Index	94	92			
Patching Index	100	100			
Rutting Index	80	86			
Roughness Condition Index (RCI)	85	97			

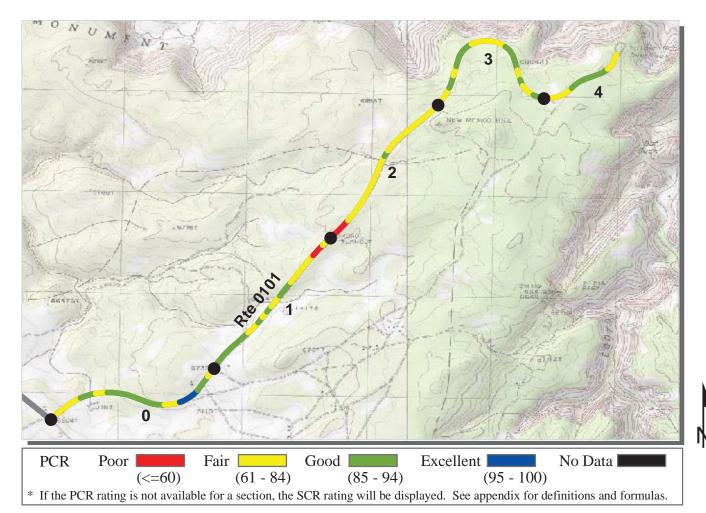


ROUTE: 0100 LODGE CAMPGROUND ACCESS ROAD CACH: CANYON DE CHELLY NATIONAL MONUMENT

COLLECTED: 9/15/2008
INTERMOUNTAIN REGION TOTAL LENGTH: 0.46 Miles

INTERMOUNTAIN REGION			TOTAL	LENGTH:	0.46 Miles
Section Number	0	0			
Section Length (mi)	0.46				
Traffic AADT SADT ADT Date	Click on PRC	nay be found at v OGRAMS / NPS I parks have traff		t.gov	
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	27				
Lane Width (ft)	14				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	84				
PCR (Pavement Condition Rating)	87				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	99				
Tranverse Cracking Index	98				
Patching Index	100				
Rutting Index	88				
Roughness Condition Index (RCI)	100				
NC Net Cellerted					

NC - Not Collected 5-4

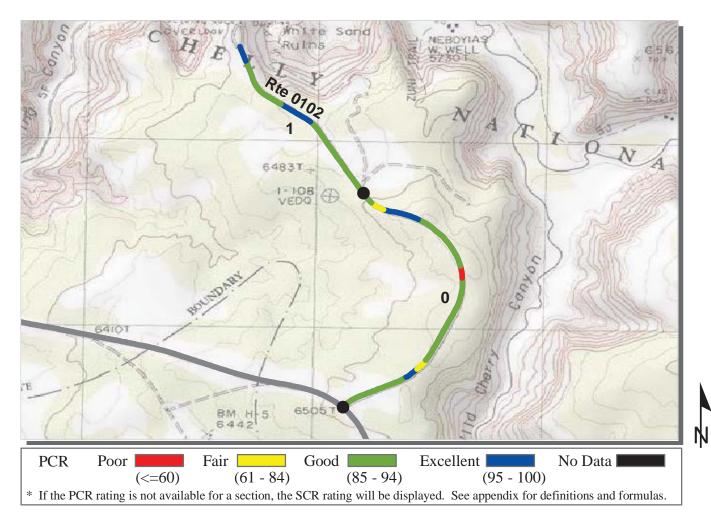


ROUTE: 0101 SPIDER ROCK OVERLOOK ROAD CACH: CANYON DE CHELLY NATIONAL MONUMENT

	COLLECTED:	9/15/2008	
INTERMOUNTAIN RECION	TOTAL I FNCTH.	1 18 Miles	

INTERMOUNTAIN REGION			TOTAL	LENGTH:	4.48 Miles
Section Number	0	1	2	3	4
Section Length (mi)	1.00	1.00	1.00	1.00	0.48
Traffic AADT SADT ADT Date	Click on PRC	nay be found at v OGRAMS / NPS I parks have traf		t.gov	
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	31	29	30	32	30
Lane Width (ft)	12	11	11	12	11
Shoulder Width Right (ft)	NC	NC	NC	NC	NC
Shoulder Width Left (ft)	NC	NC	NC	NC	NC
Roadway Condition Information					
SCR (Surface Condition Rating)	75	71	57	69	79
PCR (Pavement Condition Rating)	84	79	70	77	84
Distress Index Values					
Alligator Cracking Index	100	100	99	99	100
Longitudinal Cracking Index	88	90	82	92	94
Tranverse Cracking Index	95	93	91	93	94
Patching Index	100	100	100	100	100
Rutting Index	93	88	86	86	91
Roughness Condition Index (RCI)	99	92	88	89	90

NC - Not Collected 5-5

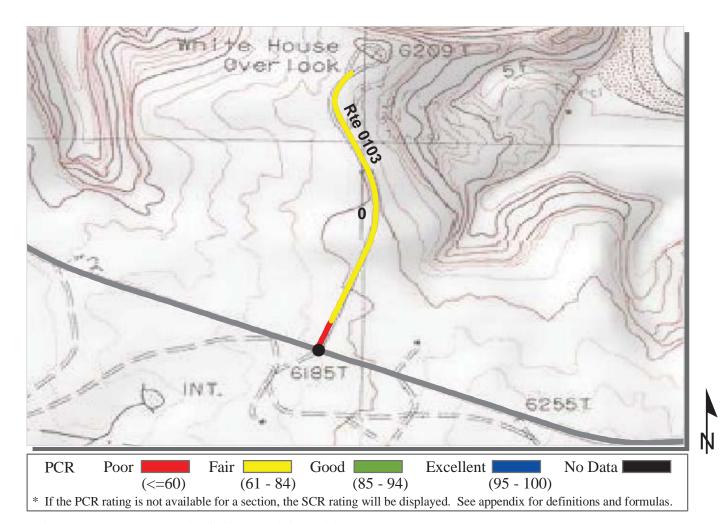


ROUTE: 0102 SLIDING HOUSE OVERLOOK ROAD CACH: CANYON DE CHELLY NATIONAL MONUMENT

	COLLECTED:	9/15/2008
INTERMOUNTAIN REGION	TOTAL LENGTH:	1.61 Miles

0	1			
	1			
1.00	0.61			
Click on	PROGRAMS / N	IPS Traffic Data	ot.gov	
2	2			
25	26			
11	12			
NC	NC			
NC	NC			
83	86			
89	91			
99	100			
89	92			
98	98			
100	100			
97	96			
99	99			
	Traffic di Click on (Note: No 2 25 11 NC NC 83 89 99 89 98 100 97	Traffic data may be found Click on PROGRAMS / N (Note: Not all parks have to the second parks have the second parks have the second parks have the	Traffic data may be found at www.efl.fhwa.dc Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data) 2	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data) 2

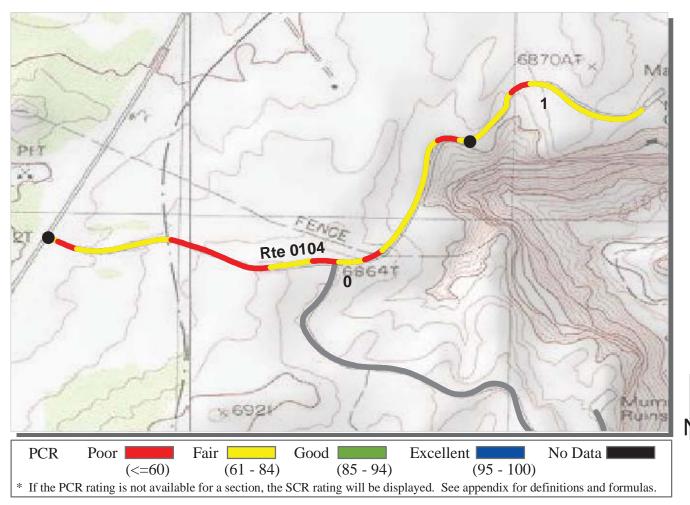
NC - Not Collected 5-6



ROUTE: 0103 WHITE HOUSE OVERLOOK ROAD CACH: CANYON DE CHELLY NATIONAL MONUMENT

	COLLECTED:	9/15/2008
INTERMOUNTAIN REGION	TOTAL LENGTH:	0.58 Miles

INTERMOUNTAIN REGION	TOTAL LENGTH:			0.58 Miles		
Section Number	0					
Section Length (mi)	0.58					
<i>Traffic</i> AADT	Traffic data may be found at www.efl.fhwa.dot.gov					
SADT ADT Date	Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)					
Cross Section Information			l			
Number of Lanes	2					
Paved Width (ft)	21					
Lane Width (ft)	10					
Shoulder Width Right (ft)	NC					
Shoulder Width Left (ft)	NC					
Roadway Condition Information						
SCR (Surface Condition Rating)	56					
PCR (Pavement Condition Rating)	67					
Distress Index Values						
Alligator Cracking Index	91					
Longitudinal Cracking Index	92					
Tranverse Cracking Index	86					
Patching Index	100					
Rutting Index	87					
Roughness Condition Index (RCI)	88					
		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		



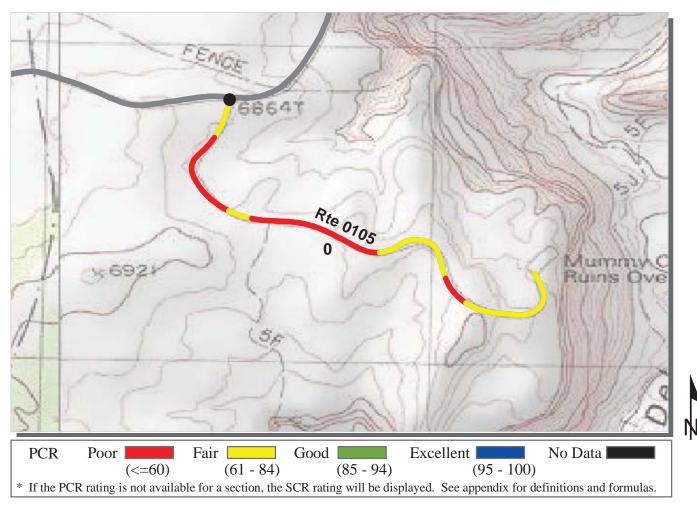
ROUTE: 0104 MASSACRE CAVE OVERLOOK ROAD CACH: CANYON DE CHELLY NATIONAL MONUMENT

	COLLECTED:	9/15/2008
INTERMOUNTAIN REGION	TOTAL LENGTH:	1.42 Miles

0				
U	1			
1.00	0.42			
Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
2	2			
24	27			
10	12			
NC	NC			
NC	NC			
62	60			
62	63			
100	100			
99	99			
99	99			
100	100			
63	62			
62	67			
	1.00 Traffic d Click on (Note: N) 2 24 10 NC NC 62 62 100 99 99 100 63	1.00 0.42 Traffic data may be found Click on PROGRAMS / N (Note: Not all parks have to the second parks have the second parks have the second parks have to the second parks have the second pa	1.00 0.42 Traffic data may be found at www.efl.fhwa.do Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data) 2	1.00 0.42 Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data) 2

9/15/2008

COLLECTED:



ROUTE: 0105 MUMMY CAVE OVERLOOK ROAD CACH: CANYON DE CHELLY NATIONAL MONUMENT

INTERMOUNTAIN REGION			TOTAL	LENGTH:	0.94 Miles
Section Number	0				
Section Length (mi)	0.94				
Traffic AADT SADT ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information Number of Lanes Paved Width (ft) Lane Width (ft) Shoulder Width Right (ft)	2 27 11 NC				

PCR (Pavement Condition Rating) 59

Distress Index Values

Alligator Cracking Index 100

Longitudinal Cracking Index 97

Tranverse Cracking Index 98

Patching Index 100

Rutting Index 58

Roughness Condition Index (RCI) 68

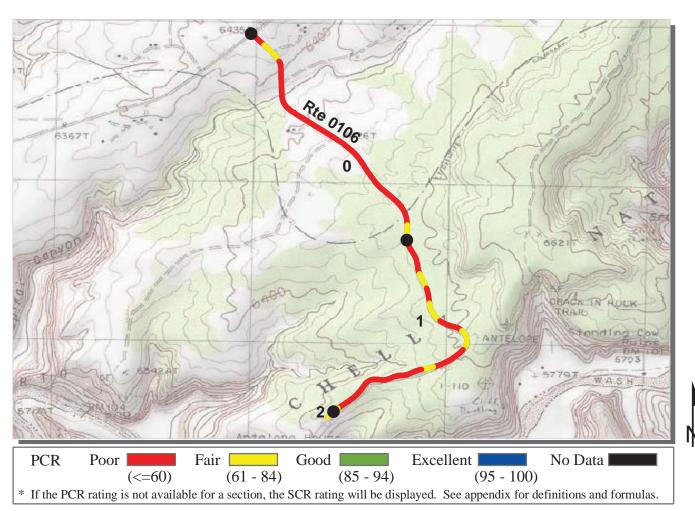
NC

54

Shoulder Width Left (ft)

Roadway Condition Information

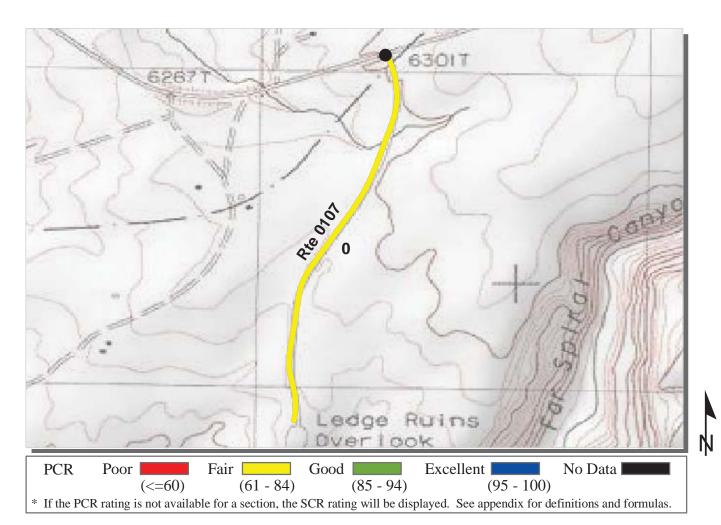
SCR (Surface Condition Rating)



ROUTE: 0106 ANTELOPE HOUSE OVERLOOK ROAD CACH: CANYON DE CHELLY NATIONAL MONUMENT

	COLLECTED:	9/15/2008
INTERMOUNTAIN REGION	TOTAL LENGTH:	2.03 Miles

INTERMOUNTAIN REGION TOTAL LENGTH					2.03 Miles
Section Number	0	1	2		
Section Length (mi)	1.00	1.00	0.03		
Traffic AADT SADT ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2	2	2		
Paved Width (ft)	26	25	25		
Lane Width (ft)	12	12	12		
Shoulder Width Right (ft)	NC	NC	NC		
Shoulder Width Left (ft)	NC	NC	NC		
Roadway Condition Information					
SCR (Surface Condition Rating)	42	46	68		
PCR (Pavement Condition Rating)	58	57	73		
Distress Index Values					
Alligator Cracking Index	100	100	100		
Longitudinal Cracking Index	96	97	97		
Tranverse Cracking Index	95	96	95		
Patching Index	100	100	100		
Rutting Index	51	54	76		
Roughness Condition Index (RCI)	82	74	80		
NG Net Cellerted					



COLLECTED:

TOTAL LENGTH:

9/15/2008

0.76 Miles

ROUTE: 0107 LEDGE RUIN ROAD

INTERMOUNTAIN REGION

Tranverse Cracking Index

Roughness Condition Index (RCI)

Patching Index

Rutting Index

Section Number

CACH: CANYON DE CHELLY NATIONAL MONUMENT

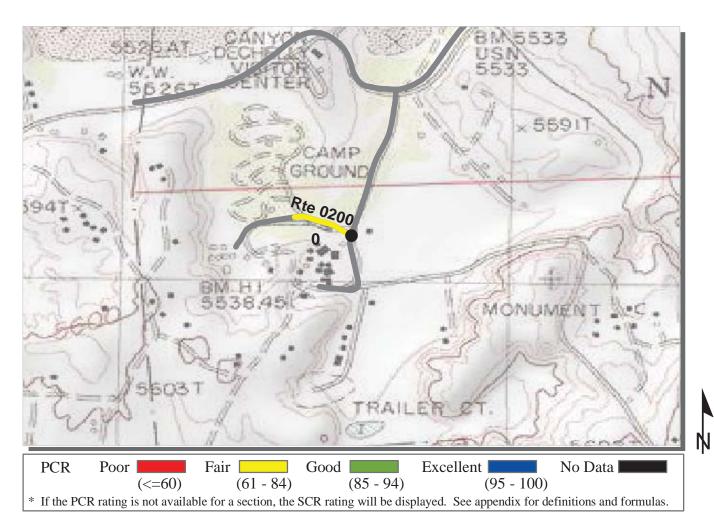
0

97

100

66

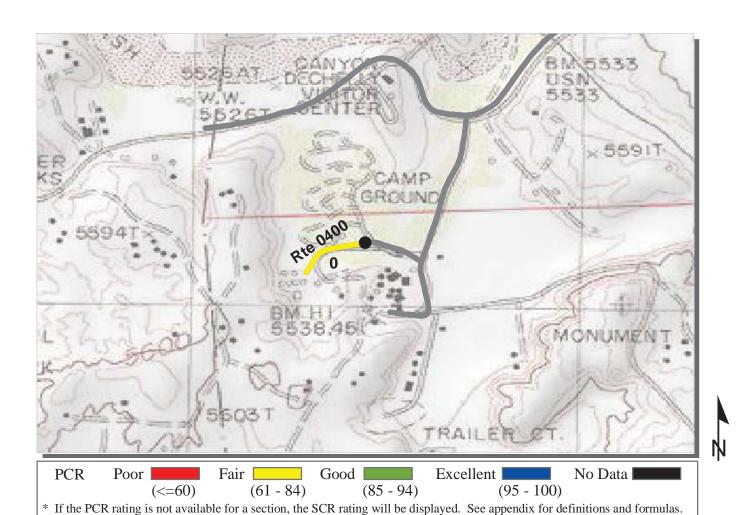
	V				
Section Length (mi)	0.76				
Traffic AADT SADT ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	24				
Lane Width (ft)	11				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	59				
PCR (Pavement Condition Rating)	67				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	97				



ROUTE: 0200 CAMPGROUND/MAINTENANCE ACCESS ROAD CACH: CANYON DE CHELLY NATIONAL MONUMENT

	COLLECTED:	9/15/2008
INTERMOUNTAIN REGION	TOTAL LENGTH:	0.10 Miles

INTERMOUNTAIN REGION			TOTAL	LENGTH:	0.10 Miles
Section Number	0				
Section Length (mi)	0.10				
Traffic AADT SADT ADT Date	Traffic data may be found at www.efl.fhwa.dot.gov Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	21				
Lane Width (ft)	11				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	75				
PCR (Pavement Condition Rating)	75				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	94				
Tranverse Cracking Index	92				
Patching Index	100				
Rutting Index	89				
Roughness Condition Index (RCI)	75				
NC Net Cellerted					



ROUTE: 0400 PARK MAINTENANCE ACCESS ROAD CACH: CANYON DE CHELLY NATIONAL MONUMENT

COLLECTED: 9/15/2008 NTERMOUNTAIN REGION TOTAL LENGTH: 0.12 Miles

INTERMOUNTAIN REGION			TOTAL	LENGTH:	0.12 Miles
Section Number	0				
Section Length (mi)	0.12				
Traffic					
AADT		2	www.efl.fhwa.do	ot.gov	
SADT	Click on PROGRAMS / NPS Traffic Data (Note: Not all parks have traffic data)				
ADT Date	(110te: 110t ar	i parks nave trai	ric data)		
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	19				
Lane Width (ft)	9				
Shoulder Width Right (ft)	NC				
Shoulder Width Left (ft)	NC				
Roadway Condition Information					
SCR (Surface Condition Rating)	80				
PCR (Pavement Condition Rating)	74				
Distress Index Values					
Alligator Cracking Index	100				
Longitudinal Cracking Index	98				
Tranverse Cracking Index	92				
Patching Index	100				
Rutting Index	90				
Roughness Condition Index (RCI)	65				

Canyon de Chelly National Monument



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

COTTONWOOD CAMPGROUND LOOP

FROM ROUTE 0200 (CAMPGROUND/MAINTENANCE ACCESS ROAD) AT MP 0.08 (ON RIGHT) THROUGH CAMPGROUND

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0201	PUBLIC	3/1	8/2008	74,448	1.28	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	1	3	GUTTER	NO CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths

Rte 0900

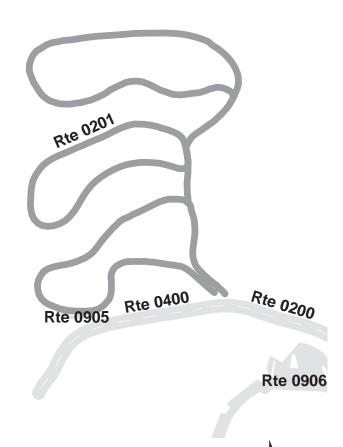
Rte 0010

500

250







500

6-1

Route 0401

RESIDENCE ROAD

FROM ROUTE 0100 (LODGE CAMPGROUND ACCESS ROAD) AT MP 0.40 (ON LEFT) TO END OF LOOP

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0401	NONPUBLIC	3/1	8/2008	21,542	0.37	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND		
0	0	0	1	GUTTER	NO CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths









Canyon de Chelly National Monument



Section 7
Parking Area Condition Rating Sheets

Route 0900

VISITOR CENTER PARKING

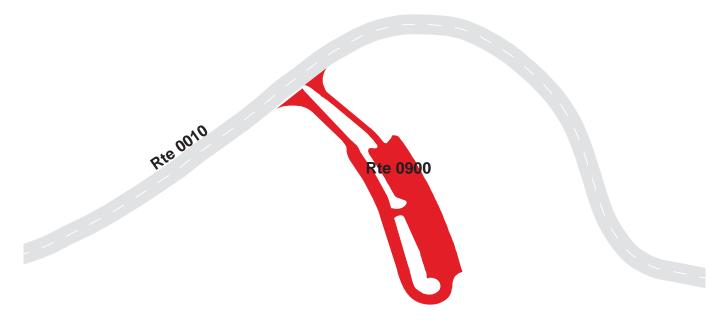
FROM ROUTE 0010 (INDIAN ROUTE 7 (SOUTH RIM DRIVE)) AT MP 0.27 (ON RIGHT) TO PARKING

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0900	PUBLIC	3/1	8/2008	38,804	0.67	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB	CONCRETE	
0	0	0	0	AND GUTTER	CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths





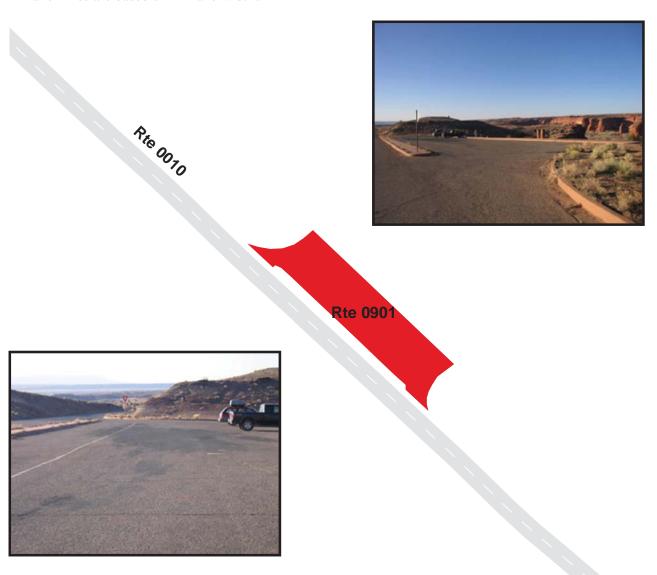


TUNNEL OVERLOOK PARKING

FROM ROUTE 0010 (INDIAN ROUTE 7 (SOUTH RIM DRIVE)) AT MP 2.13 (ON LEFT) TO ROUTE 0010 (INDIAN ROUTE 7 (SOUTH RIM DRIVE)) AT MP 2.17 (ON LEFT)

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0901	PUBLIC	3/1	8/2008	9,937	0.17	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB	CONCRETE	
0	0	0	0	AND GUTTER	CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths

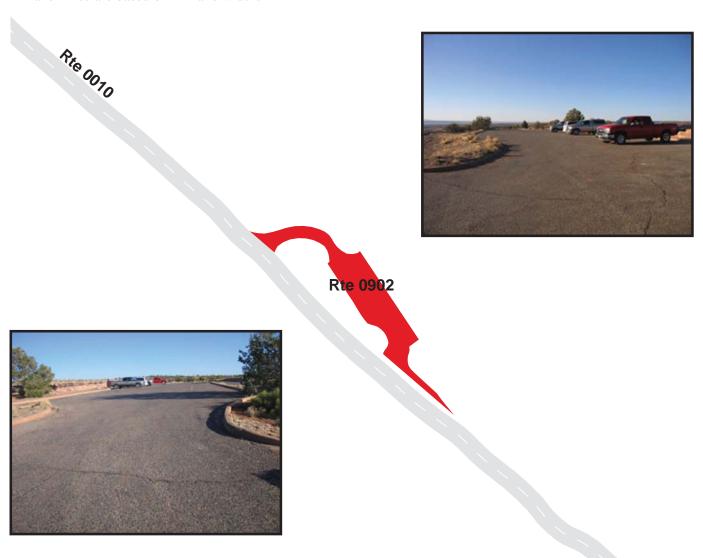


TSEGI OVERLOOK PARKING

FROM ROUTE 0010 (INDIAN ROUTE 7 (SOUTH RIM DRIVE)) AT MP 2.51 (ON LEFT) TO ROUTE 0010 (INDIAN ROUTE 7 (SOUTH RIM DRIVE)) AT MP 2.56 (ON LEFT)

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0902	PUBLIC	3/1	8/2008	13,362	0.23	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB	CONCRETE	
0	0	0	0	AND GUTTER	CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths



JUNCTION OVERLOOK PARKING

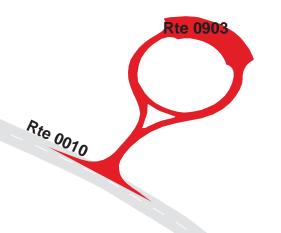
FROM ROUTE 0010 (INDIAN ROUTE 7 (SOUTH RIM DRIVE)) AT MP 3.89 (ON LEFT) TO PARKING

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0903	PUBLIC	3/1	8/2008	23,991	0.41	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB	CONCRETE	
0	0	0	0	AND GUTTER	CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths



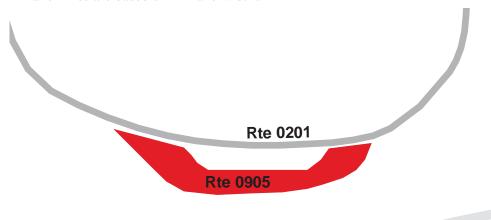




COTTONWOOD CAMPGROUND RV DUMP STATION FROM ROUTE 0201 (COTTONWOOD CAMPGROUND LOOP) TO PARKING

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0905	PUBLIC	3/1	8/2008	2,079	0.04	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				NO CURB AND	CONCRETE	
0	0	0	0	GUTTER	CURB	POOR/45

^{*} Lane miles are based on 11' lane widths



Rte 0400



THUNDERBIRD LODGE PARKING

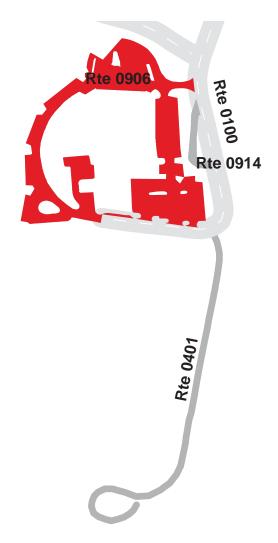
FROM ROUTE 0100 (LODGE CAMPGROUND ACCESS ROAD) AT MP 0.31 (ON RIGHT) TO ROUTE 0100 (LODGE CAMPGROUND ACCESS ROAD) AT MP 0.46 (ON RIGHT)

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0906	PUBLIC	3/1	8/2008	107,320	1.85	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB	CONCRETE	
0	0	0	2	AND GUTTER	CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths









SPIDER ROCK OVERLOOK PARKING

FROM ROUTE 0101 (SPIDER ROCK OVERLOOK ROAD) AT END TO PARKING

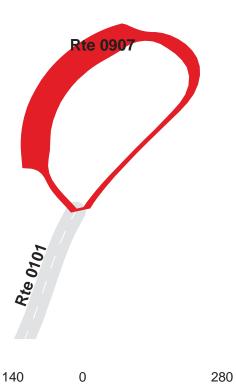
Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0907	PUBLIC	3/1	8/2008	23,955	0.41	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB	CONCRETE	
0	0	0	0	AND GUTTER	CURB	GOOD/90

^{*} Lane miles are based on 11' lane widths









SLIDING HOUSE OVERLOOK PARKING FROM ROUTE 0102 (SLIDING HOUSE OVERLOOK ROAD) AT END TO PARKING

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0908	PUBLIC	3/1	8/2008	24,537	0.42	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB	CONCRETE	
0	0	0	0	AND GUTTER	CURB	GOOD/90

^{*} Lane miles are based on 11' lane widths





330

165



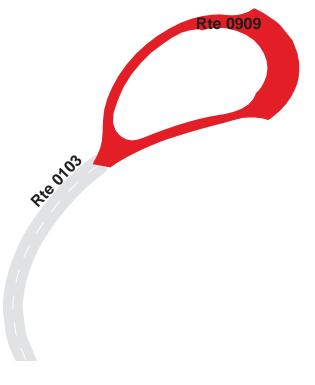
WHITE HOUSE OVERLOOK PARKING FROM ROUTE 0103 (WHITE HOUSE OVERLOOK ROAD) AT END TO PARKING

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0909	PUBLIC	3/1	8/2008	26,270	0.45	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB	CONCRETE	
0	0	0	0	AND GUTTER	CURB	GOOD/90

^{*} Lane miles are based on 11' lane widths





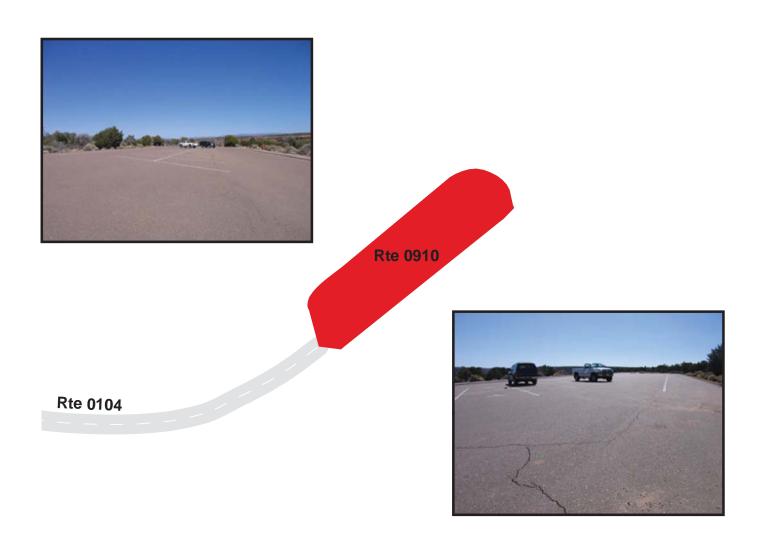


280

MASSACRE CAVE OVERLOOK PARKING FROM ROUTE 0104 (MASSACRE CAVE OVERLOOK ROAD) AT END TO PARKING

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0910	PUBLIC	3/1	8/2008	23,548	0.41	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB	CONCRETE	
0	0	0	0	AND GUTTER	CURB	GOOD/90

^{*} Lane miles are based on 11' lane widths



200

100

MUMMY CAVE OVERLOOK PARKING FROM ROUTE 0105 (MUMMY CAVE OVERLOOK ROAD) AT END TO PARKING

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0911	PUBLIC	3/1	8/2008	31,350	0.54	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB	CONCRETE	·
0	0	0	0	AND GUTTER	CURB	GOOD/90

^{*} Lane miles are based on 11' lane widths







LEDGE RUIN PARKING FROM ROUTE 0107 (LEDGE RUIN ROAD) AT END TO PARKING

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0912	PUBLIC	3/18/2008		29,796	0.51	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB	CONCRETE	
0	0	0	0	AND GUTTER	CURB	GOOD/90

^{*} Lane miles are based on 11' lane widths

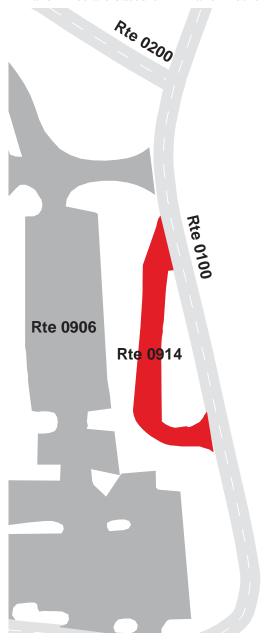


CANYON TOUR LOADING AREA

FROM ROUTE 0100 (LODGE CAMPGROUND ACCESS ROAD) AT MP 0.33 (ON RIGHT) TO ROUTE 0100 (LODGE CAMPGROUND ACCESS ROAD) AT MP 0.36 (ON RIGHT)

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0914	PUBLIC	3/1	8/2008	4,888	0.08	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB	CONCRETE	
0	0	0	0	AND GUTTER	CURB	FAIR/73

^{*} Lane miles are based on 11' lane widths





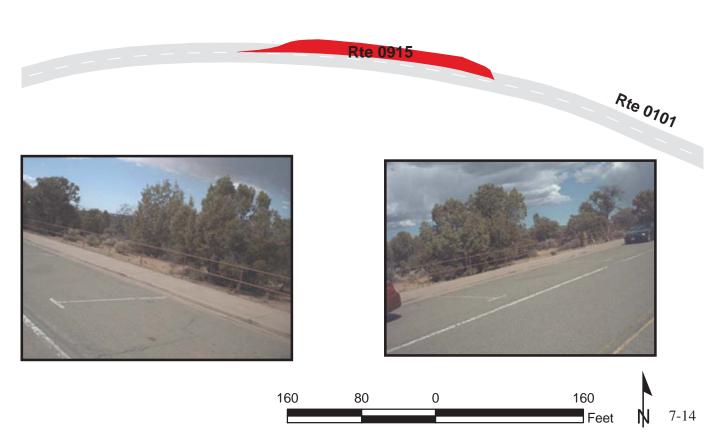
FACE ROCK OVERLOOK PARKING

ADJACENT TO ROUTE 0101 (SPIDER ROCK OVERLOOK ROAD) AT MP 3.52 (ON LEFT)

Route	Public /					
Number	NonPublic	Date Visited		Area (sq ft)	Lane Miles *	Surface Type
0915	PUBLIC	3/18/2008		2,622	0.05	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB	CONCRETE	
0	0	0	0	AND GUTTER	CURB	GOOD/90

^{*} Lane miles are based on 11' lane widths

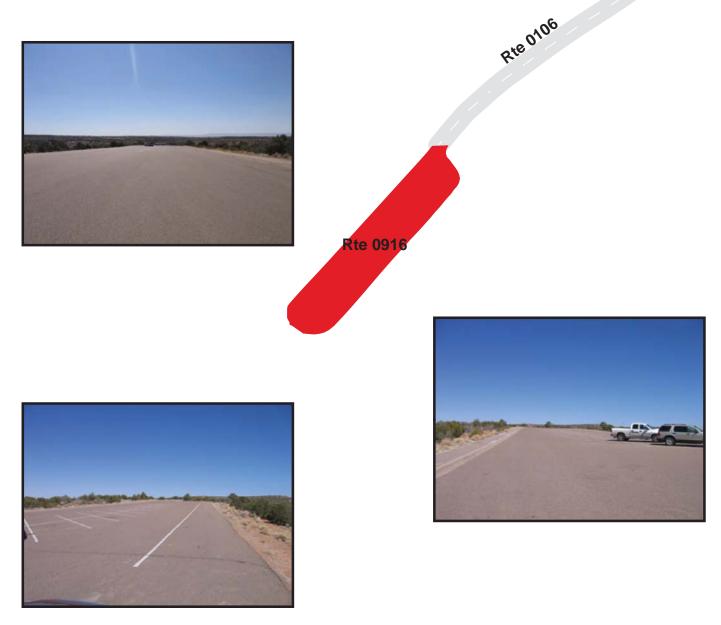




ANTELOPE HOUSE OVERLOOK PARKING FROM ROUTE 0106 (ANTELOPE HOUSE OVERLOOK ROAD) AT END TO PARKING

Route	Public /					
Number	NonPublic	Date	Visited	Area (sq ft)	Lane Miles *	Surface Type
0916	PUBLIC	3/18/2008		32,761	0.56	AS
			Fire			
Culverts	Drop Inlets	Gates	Hydrants	Curb & Gutter	Curb	PCR
				CONCRETE CURB	CONCRETE	
0	0	0	0	AND GUTTER	CURB	GOOD/90

^{*} Lane miles are based on 11' lane widths



Canyon de Chelly National Monument



Section 8
Parkwide / Route Maintenance
Features Summaries

CACH: PARKWIDE MAINTENANCE FEATURES SUMMARY

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

LINEAR FEET	COUNT
692	
0	
	0
0	
	4
	71
54,384	
	7
	8
	3
692	
0	
	203
0	0
	0
	0
	0
	2
16,801	
	2
	0
	0
	176
	0
0	
	0
	0
0	
	692 0 0 54,384 692 0 0 16,801

CACH: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0010 INDIAN ROUTE 7 (SOUTH RIM DRIVE)	ROUTE 0100 LODGE CAMPGROUND ACCESS ROAD	ROUTE 0101 SPIDER ROCK OVERLOOK ROAD	ROUTE 0102 SLIDING HOUSE OVERLOOK ROAD	ROUTE 0103 WHITE HOUSE OVERLOOK ROAD	ROUTE 0104 MASSACRE CAVE OVERLOOK ROAD	UNIT
BARRIER	692	0	0	0	0	0	LINEAR FEET
BOLLARD	0	0	0	0	0	0	LINEAR FEET
BRIDGE	0	0	0	0	0	0	EACH
CABLE	0	0	0	0	0	0	LINEAR FEET
CATTLE GUARD	0	1	0	0	0	1	EACH
CULVERT	38	0	15	1	0	1	EACH
CURB	16,125	74	22,181	1,167	570	3,575	LINEAR FEET
DROP INLET	1	0	0	0	0	0	EACH
FIRE HYDRANT	0	1	0	0	0	0	EACH
GATE	0	0	0	0	0	0	EACH
GUARD/GUIDE RAIL	692	0	0	0	0	0	LINEAR FEET
GUARD/GUIDE WALL	0	0	0	0	0	0	LINEAR FEET
INTERSECTION	99	13	17	17	5	7	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
LOW WATER CROSSING	0	0	0	0	0	0	LINEAR FEET
MILE MARKER	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
OVERPASS	0	0	0	0	0	0	EACH
PARK BOUNDARY	1	0	0	0	0	0	EACH
PAVED DITCH	13,216	0	69	269	0	565	LINEAR FEET
PULLOUT	1	0	1	0	0	0	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	EACH
SIGN	57	13	25	8	6	14	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TEMPORARY BARRIER	0	0	0	0	0	0	LINEAR FEET
TRAFFIC LIGHT	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	EACH
TURNOUT	0	0	0	0	0	0	LINEAR FEET

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

CACH: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0105 MUMMY CAVE OVERLOOK ROAD	ROUTE 0106 ANTELOPE HOUSE OVERLOOK ROAD	ROUTE 0107 LEDGE RUIN ROAD	ROUTE 0200 CAMPGROUND/MAINTENANCE ACCESS ROAD	ROUTE 0400 PARK MAINTENANCE ACCESS ROAD	UNIT
BARRIER	0	0	0	0	0	LINEAR FEET
BOLLARD	0	0	0	0	0	LINEAR FEET
BRIDGE	0	0	0	0	0	EACH
CABLE	0	0	0	0	0	LINEAR FEET
CATTLE GUARD	0	1	1	0	0	EACH
CULVERT	3	7	4	0	2	EACH
CURB	3,754	4,794	2,144	0	0	LINEAR FEET
DROP INLET	2	2	2	0	0	EACH
FIRE HYDRANT	0	0	0	0	1	EACH
GATE	0	0	1	0	1	EACH
GUARD/GUIDE RAIL	0	0	0	0	0	LINEAR FEET
GUARD/GUIDE WALL	0	0	0	0	0	LINEAR FEET
INTERSECTION	7	19	8	6	5	EACH
LOW WATER CROSSING	0	0	0	0	0	EACH
LOW WATER CROSSING	0	0	0	0	0	LINEAR FEET
MILE MARKER	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	EACH
OVERPASS	0	0	0	0	0	EACH
PARK BOUNDARY	0	1	0	0	0	EACH
PAVED DITCH	660	1,663	359	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
SIGN	17	15	8	10	3	EACH
STATE BOUNDARY	0	0	0	0	0	EACH
TEMPORARY BARRIER	0	0	0	0	0	LINEAR FEET
TRAFFIC LIGHT	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	EACH
TURNOUT	0	0	0	0	0	LINEAR FEET

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

CACH: STRUCTURE LIST

ROUTE	FUNCTIONAL	MILEPOST	MILEPOST		STRUCTURE
NUMBER	CLASS	START	END	FEATURE	NUMBER
	0	0 0	0	0	0

No data available for this section.

Canyon de Chelly National Monument



Section 9
Park Route Maintenance Features
Road Logs

ROUTE 0010: INDIAN ROUTE 7 (SOUTH RIM DRIVE)

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM WEST PARK BOUNDARY
0.000	0.000	PARK BOUNDARY	N/A	WEST PARK BOUNDARY
0.000	0.000	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.000	0.000	INTERSECTION	N/A	PAVED ROUTE (INDIAN ROUTE 7 (SOUTH RIM DRIVE/ STATE MAINTAINED / NON NPS))
0.064	0.064	SIGN	RIGHT	GUIDE, UNABLE TO READ FROM VIDEO
0.082	0.082	SIGN	RIGHT	GUIDE, ENTERING CANYON DE CHELLY NATIONAL MONUMENT
0.099	0.099	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.131	0.131	CULVERT	N/A	
0.133	0.212	CURB-AND-GUTTER	LEFT	
0.225	0.225	DROP INLET	RIGHT	
0.227	0.269	CURB-AND-GUTTER	RIGHT	
0.269	0.269	SIGN	LEFT	REGULATORY, ONE WAY
0.272	0.272	INTERSECTION	RIGHT	ROUTE 0900 (VISITOR CENTER PARKING)
0.278	0.278	SIGN	LEFT	GUIDE, CANYON DE CHELLY NATIONAL MONUMENT
0.278	0.278	SIGN	LEFT	GUIDE, VISITOR CENTER
0.279	0.279	SIGN	RIGHT	GUIDE, CANYON DE CHELLY NATIONAL MONUMENT
0.279	0.279	SIGN	RIGHT	GUIDE, VISITOR CENTER
0.282	0.282	INTERSECTION	RIGHT	ROUTE 0900 (VISITOR CENTER PARKING)
0.286	0.286	SIGN	RIGHT	REGULATORY, DO NOT ENTER
0.289	0.294	CURB	RIGHT	
0.291	0.291	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.294	0.355	PAVED DITCH	RIGHT	
0.317	0.317	SIGN	RIGHT	GUIDE, TSAILE VIA NORTH RIM SOUTH RIM CAMPGROUND THUNDERBIRD LODGE
0.342	0.342	INTERSECTION	LEFT	PAVED ROUTE (INDIAN ROUTE 64 (NORTH RIM DRIVE) (STATE MAINTAINED / NON NPS))
0.379	0.379	SIGN	RIGHT	GUIDE, CHINLE VISITOR CENTER NORTH RIM OVERLOOK DINE' COLLEGE AT TSAILE
0.392	0.392	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.392	0.392	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.455	0.455	SIGN	RIGHT	WARNING, CAUTION TOUR TRUCK CROSSING
0.455	0.455	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.495	0.495	SIGN	RIGHT	GUIDE, SOUTH RIM DRIVE TOTSONI HORSE RENTAL CAMPGROUND THUNDERBIRD LODGE

ROUTE 0010: INDIAN ROUTE 7 (SOUTH RIM DRIVE)

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.520	0.520	INTERSECTION	LEFT	ROUTE 0012 (CDC CANYON ROAD)
0.520	0.520	INTERSECTION	RIGHT	ROUTE 0100 (LODGE CAMPGROUND ACCESS ROAD)
0.534	0.534	SIGN	RIGHT	GUIDE, SPIDER ROCK CAMPGROUND 9.7 MILES / 17.7 KM
0.544	0.544	INTERSECTION	RIGHT	UNPAVED ROUTE
0.546	0.546	SIGN	RIGHT	GUIDE, CHINLE VISITOR CENTER
0.547	0.560	PULLOUT	LEFT	
0.564	0.609	CURB	LEFT	
0.568	0.568	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.627	0.627	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.693	0.738	CURB	RIGHT	
0.693	0.757	GUARD/GUIDE RAIL	LEFT	
0.733	0.733	CULVERT	N/A	
0.738	0.802	PAVED DITCH	RIGHT	
0.802	0.850	CURB	RIGHT	
0.832	0.832	SIGN	RIGHT	REGULATORY, REDUCED SPEED AHEAD
0.835	0.835	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
0.835	0.835	SIGN	RIGHT	REGULATORY, RADAR ENFORCED
0.850	0.956	PAVED DITCH	RIGHT	
0.956	1.037	CURB	RIGHT	
1.037	1.209	PAVED DITCH	RIGHT	
1.045	1.206	PAVED DITCH	LEFT	
1.232	1.232	CULVERT	N/A	
1.244	1.244	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.244	1.244	SIGN	RIGHT	WARNING, HILL
1.253	1.421	PAVED DITCH	LEFT	
1.346	1.346	CULVERT	N/A	
1.416	1.416	INTERSECTION	RIGHT	UNPAVED ROUTE
1.458	1.458	CULVERT	N/A	
1.653	1.722	PAVED DITCH	LEFT	
1.690	1.690	CULVERT	N/A	
1.715	1.892	CURB	RIGHT	
1.752	1.752	CULVERT	N/A	
1.871	1.871	INTERSECTION	LEFT	UNPAVED ROUTE
1.894	1.931	CURB	LEFT	

ROUTE 0010: INDIAN ROUTE 7 (SOUTH RIM DRIVE)

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
1.976	1.976	CULVERT	N/A	
1.976	2.007	CURB	LEFT	
2.006	2.127	PAVED DITCH	RIGHT	
2.007	2.117	PAVED DITCH	LEFT	
2.055	2.055	SIGN	RIGHT	GUIDE, TUNNEL CANYON OVERLOOK
2.117	2.123	CURB-AND-GUTTER	LEFT	
2.126	2.126	INTERSECTION	LEFT	ROUTE 0901 (TUNNEL OVERLOOK PARKING)
2.130	2.164	CURB-AND-GUTTER	LEFT	
2.165	2.165	INTERSECTION	LEFT	ROUTE 0901 (TUNNEL OVERLOOK PARKING)
2.169	2.178	CURB-AND-GUTTER	LEFT	
2.178	2.302	PAVED DITCH	LEFT	
2.213	2.213	SIGN	RIGHT	GUIDE, TUNNEL CANYON OVERLOOK
2.303	2.303	CULVERT	N/A	
2.314	2.358	PAVED DITCH	LEFT	
2.354	2.354	CULVERT	N/A	
2.364	2.430	PAVED DITCH	LEFT	
2.414	2.414	INTERSECTION	RIGHT	UNPAVED ROUTE
2.428	2.428	SIGN	RIGHT	GUIDE, TSEGI OVERLOOK
2.460	2.460	CULVERT	N/A	
2.470	2.502	PAVED DITCH	LEFT	
2.505	2.505	INTERSECTION	LEFT	ROUTE 0902 (TSEGI OVERLOOK PARKING)
2.513	2.554	PAVED DITCH	LEFT	
2.557	2.557	INTERSECTION	LEFT	ROUTE 0902 (TSEGI OVERLOOK PARKING)
2.565	2.569	CURB	LEFT	
2.587	2.654	GUARD/GUIDE RAIL	LEFT	
2.627	2.627	SIGN	RIGHT	GUIDE, TSEGI OVERLOOK
2.727	2.727	INTERSECTION	RIGHT	UNPAVED ROUTE
2.774	2.774	CULVERT	N/A	
2.797	2.797	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.804	2.804	CULVERT	N/A	
2.830	2.999	CURB	LEFT	
2.990	2.990	INTERSECTION	RIGHT	UNPAVED ROUTE
2.999	3.248	PAVED DITCH	LEFT	
3.013	3.013	INTERSECTION	RIGHT	UNPAVED ROUTE

ROUTE 0010: INDIAN ROUTE 7 (SOUTH RIM DRIVE)

3.036 3.036 INTERSECTION RIGHT UNPAVED ROUTE	FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
3.433 JASS INTERSECTION RIGHT UNPAVED ROUTE 3.509 3.801 CURB RIGHT 3.531 3.531 CULVERT N/A 3.842 3.842 SIGN RIGHT GUIDE, JUNCTION OVERLOOK 3.892 3.892 INTERSECTION LEFT ROUTE 0903 (JUNCTION OVERLOOK 3.957 3.957 SIGN RIGHT GUIDE, JUNCTION OVERLOOK 3.990 3.990 CULVERT N/A 4.039 4.096 CURB RIGHT 4.099 4.099 INTERSECTION RIGHT 4.103 4.202 PAVED DITCH RIGHT 4.104 SIGN RIGHT REGULATORY, GRAPHIC SIGN, NO TEXT 4.104 4.104 SIGN RIGHT REGULATORY, GRAPHIC SIGN, NO TEXT 4.396 4.396 CULVERT N/A N/A 4.542 4.542 CULVERT N/A 4.541 4.591 INTERSECTION RIGHT UNPAVED ROUTE 4.724 INTERSECTION <td>3.036</td> <td></td> <td></td> <td>RIGHT</td> <td></td>	3.036			RIGHT	
3.509 3.801 CURB RIGHT 3.531 3.531 CULYERT N/A 3.842 3.842 SIGN RIGHT GUIDE, JUNCTION OVERLOOK 3.892 3.892 INTERSECTION LEFT ROUTE 0903 (JUNCTION OVERLOOK 3.957 3.957 SIGN RIGHT GUIDE, JUNCTION OVERLOOK 3.990 3.990 CULVERT N/A 4.039 4.096 CURB RIGHT 4.099 4.096 CURB RIGHT 4.103 4.202 PAVED DITCH RIGHT 4.104 SIGN LEFT REGULATORY, GRAPHIC SIGN, NO TEXT 4.104 4.104 SIGN RIGHT REGULATORY, GRAPHIC SIGN, NO TEXT 4.396 4.396 CULVERT N/A N/A 4.490 4.490 CULVERT N/A N/A 4.541 4.542 CULVERT N/A 4.591 INTERSECTION RIGHT UNPAVED ROUTE 4.724 4.724 INTERSECTION RIGHT	3.172	3.172	CULVERT	N/A	
3.531 3.531 CULVERT N/A 3.842 3.842 SIGN RIGHT GUIDE, JUNCTION OVERLOOK 3.892 3.892 INTERSECTION LEFT ROUTE 0903 (JUNCTION OVERLOOK 3.957 3.957 SIGN RIGHT GUIDE, JUNCTION OVERLOOK 3.990 3.990 CULVERT N/A 3.991 4.028 CURB RIGHT 4.039 4.096 CURB RIGHT 4.099 4.099 INTERSECTION RIGHT 4.103 4.202 PAVED DITCH RIGHT 4.104 4.104 SIGN LEFT REGULATORY, GRAPHIC SIGN, NO TEXT 4.104 4.104 SIGN RIGHT REGULATORY, GRAPHIC SIGN, NO TEXT 4.396 4.396 CULVERT N/A 4.490 4.490 CULVERT N/A 4.542 CULVERT N/A 4.541 INTERSECTION RIGHT UNPAVED ROUTE 4.724 INTERSECTION RIGHT UNPAVED ROUTE	3.433	3.433	INTERSECTION	RIGHT	UNPAVED ROUTE
3.842 3.842 SIGN RIGHT GUIDE, JUNCTION OVERLOOK 3.892 3.892 INTERSECTION LEFT ROUTE 0903 (JUNCTION OVERLOOK 3.957 3.957 SIGN RIGHT GUIDE, JUNCTION OVERLOOK 3.990 3.990 CULVERT N/A 3.991 4.028 CURB RIGHT 4.039 4.096 CURB RIGHT 4.099 4.099 INTERSECTION RIGHT 4.103 4.202 PAVED DITCH RIGHT 4.104 4.104 SIGN LEFT REGULATORY, GRAPHIC SIGN, NO TEXT 4.104 4.104 SIGN RIGHT REGULATORY, GRAPHIC SIGN, NO TEXT 4.396 4.396 CULVERT N/A 4.490 4.490 CULVERT N/A 4.542 CULVERT N/A 4.541 INTERSECTION RIGHT UNPAVED ROUTE 4.724 INTERSECTION RIGHT UNPAVED ROUTE 5.119 5.119 INTERSECTION RIGHT UNPAVED	3.509	3.801	CURB	RIGHT	
3.892 JASPE INTERSECTION LEFT ROUTE 0903 (JUNCTION OVERLOOK PARKING) 3.957 3.957 SIGN RIGHT GUIDE, JUNCTION OVERLOOK 3.990 3.990 CULVERT N/A 4.039 4.028 CURB RIGHT 4.039 4.096 CURB RIGHT 4.099 4.099 INTERSECTION RIGHT 4.103 4.202 PAVED DITCH RIGHT 4.104 4.104 SIGN LEFT REGULATORY, GRAPHIC SIGN, NO TEXT 4.104 4.104 SIGN RIGHT REGULATORY, GRAPHIC SIGN, NO TEXT 4.396 CULVERT N/A N/A 4.490 CULVERT N/A 4.542 CULVERT N/A 4.591 INTERSECTION RIGHT UNPAVED ROUTE 4.610 INTERSECTION RIGHT UNPAVED ROUTE 4.724 INTERSECTION RIGHT UNPAVED ROUTE 5.119 SITHERSECTION RIGHT UNPAVED ROUTE 5.121 <t< td=""><td>3.531</td><td>3.531</td><td>CULVERT</td><td>N/A</td><td></td></t<>	3.531	3.531	CULVERT	N/A	
3.957 3.957 SIGN RIGHT GUIDE, JUNCTION OVERLOOK 3.990 3.990 CULVERT N/A 3.991 4.028 CURB RIGHT 4.039 4.096 CURB RIGHT 4.099 4.099 INTERSECTION RIGHT 4.103 4.202 PAVED DITCH RIGHT 4.104 4.104 SIGN LEFT REGULATORY, GRAPHIC SIGN, NO TEXT 4.104 4.104 SIGN RIGHT REGULATORY, GRAPHIC SIGN, NO TEXT 4.396 CULVERT N/A N/A A.490 CULVERT N/A 4.542 CULVERT N/A A.542 CULVERT N/A 4.591 INTERSECTION RIGHT UNPAVED ROUTE A.724 4.724 INTERSECTION RIGHT UNPAVED ROUTE 4.730 4.988 CURB LEFT 4.900 4.900 INTERSECTION RIGHT UNPAVED ROUTE 5.121 SIGN RIGHT UNPAVED ROUTE <t< td=""><td>3.842</td><td>3.842</td><td>SIGN</td><td>RIGHT</td><td>GUIDE, JUNCTION OVERLOOK</td></t<>	3.842	3.842	SIGN	RIGHT	GUIDE, JUNCTION OVERLOOK
3.990 3.990 CULVERT N/A 3.991 4.028 CURB RIGHT 4.039 4.096 CURB RIGHT 4.099 4.099 INTERSECTION RIGHT UNPAVED ROUTE 4.103 4.202 PAVED DITCH RIGHT 4.104 4.104 SIGN LEFT REGULATORY, GRAPHIC SIGN, NO TEXT 4.396 4.396 CULVERT N/A 4.490 4.490 CULVERT N/A 4.542 4.542 CULVERT N/A 4.591 INTERSECTION RIGHT UNPAVED ROUTE 4.610 INTERSECTION RIGHT UNPAVED ROUTE 4.724 INTERSECTION RIGHT UNPAVED ROUTE 4.730 4.988 CURB LEFT 4.900 4.900 INTERSECTION RIGHT UNPAVED ROUTE 5.119 5.119 INTERSECTION RIGHT UNPAVED ROUTE 5.121 5.121 SIGN RIGHT UNPAVED ROUTE 5.198 </td <td>3.892</td> <td>3.892</td> <td>INTERSECTION</td> <td>LEFT</td> <td>ROUTE 0903 (JUNCTION OVERLOOK PARKING)</td>	3.892	3.892	INTERSECTION	LEFT	ROUTE 0903 (JUNCTION OVERLOOK PARKING)
3.991 4.028 CURB RIGHT 4.039 4.096 CURB RIGHT 4.099 4.099 INTERSECTION RIGHT 4.103 4.202 PAVED DITCH RIGHT 4.104 4.104 SIGN LEFT REGULATORY, GRAPHIC SIGN, NO TEXT 4.104 4.104 SIGN RIGHT REGULATORY, GRAPHIC SIGN, NO TEXT 4.396 4.396 CULVERT N/A 4.490 4.490 CULVERT N/A 4.542 CULVERT N/A 4.591 INTERSECTION RIGHT UNPAVED ROUTE 4.610 INTERSECTION RIGHT UNPAVED ROUTE 4.724 INTERSECTION RIGHT UNPAVED ROUTE 5.119 5.119 INTERSECTION RIGHT UNPAVED ROUTE 5.121 5.121 SIGN RIGHT UNPAVED ROUTE 5.121 5.121 SIGN RIGHT UNPAVED ROUTE 5.132 CULVERT N/A 5.198 INTERSECTION	3.957	3.957	SIGN	RIGHT	GUIDE, JUNCTION OVERLOOK
4.039 4.096 CURB RIGHT 4.099 4.099 INTERSECTION RIGHT UNPAVED ROUTE 4.103 4.202 PAVED DITCH RIGHT 4.104 4.104 SIGN LEFT REGULATORY, GRAPHIC SIGN, NO TEXT 4.104 4.104 SIGN RIGHT REGULATORY, GRAPHIC SIGN, NO TEXT 4.396 4.396 CULVERT N/A 4.490 4.490 CULVERT N/A 4.542 CULVERT N/A 4.591 INTERSECTION RIGHT UNPAVED ROUTE 4.610 4.610 INTERSECTION RIGHT UNPAVED ROUTE 4.724 4.724 INTERSECTION RIGHT UNPAVED ROUTE 5.119 5.119 INTERSECTION RIGHT UNPAVED ROUTE 5.121 5.121 SIGN RIGHT UNPAVED ROUTE 5.122 5.132 CULVERT N/A 5.132 S.119 INTERSECTION RIGHT UNPAVED ROUTE 5.198 INTERSECTION	3.990	3.990	CULVERT	N/A	
4.099 4.099 INTERSECTION RIGHT UNPAVED ROUTE 4.103 4.202 PAVED DITCH RIGHT 4.104 4.104 SIGN LEFT REGULATORY, GRAPHIC SIGN, NO TEXT 4.104 4.104 SIGN RIGHT REGULATORY, GRAPHIC SIGN, NO TEXT 4.396 4.396 CULVERT N/A 4.490 4.490 CULVERT N/A 4.542 CULVERT N/A 4.591 INTERSECTION RIGHT UNPAVED ROUTE 4.610 4.610 INTERSECTION RIGHT UNPAVED ROUTE 4.724 4.724 INTERSECTION RIGHT UNPAVED ROUTE 4.900 4.900 INTERSECTION RIGHT UNPAVED ROUTE 5.119 5.119 INTERSECTION RIGHT UNPAVED ROUTE 5.121 SIGN RIGHT UNPAVED ROUTE 5.132 CULVERT N/A 5.132 CULVERT N/A 5.198 INTERSECTION LEFT UNPAVED ROUTE <t< td=""><td>3.991</td><td>4.028</td><td>CURB</td><td>RIGHT</td><td></td></t<>	3.991	4.028	CURB	RIGHT	
4.103 4.202 PAVED DITCH RIGHT 4.104 4.104 SIGN LEFT REGULATORY, GRAPHIC SIGN, NO TEXT 4.104 4.104 SIGN RIGHT REGULATORY, GRAPHIC SIGN, NO TEXT 4.396 4.396 CULVERT N/A 4.490 4.490 CULVERT N/A 4.542 CULVERT N/A 4.591 INTERSECTION RIGHT UNPAVED ROUTE 4.610 4.610 INTERSECTION RIGHT UNPAVED ROUTE 4.724 4.724 INTERSECTION RIGHT UNPAVED ROUTE 4.900 4.988 CURB LEFT 4.900 4.900 INTERSECTION RIGHT UNPAVED ROUTE 5.119 5.119 INTERSECTION RIGHT UNPAVED ROUTE 5.132 5.132 CULVERT N/A 5.198 INTERSECTION LEFT UNPAVED ROUTE 5.206 5.267 PAVED DITCH LEFT 5.247 5.247 SIGN RIGHT U	4.039	4.096	CURB	RIGHT	
4.104 4.104 SIGN LEFT REGULATORY, GRAPHIC SIGN, NO TEXT 4.104 4.104 SIGN RIGHT REGULATORY, GRAPHIC SIGN, NO TEXT 4.396 4.396 CULVERT N/A 4.490 4.490 CULVERT N/A 4.542 4.542 CULVERT N/A 4.591 INTERSECTION RIGHT UNPAVED ROUTE 4.610 INTERSECTION RIGHT UNPAVED ROUTE SPUR 4.724 4.724 INTERSECTION RIGHT UNPAVED ROUTE 4.900 4.988 CURB LEFT 4.900 4.900 INTERSECTION RIGHT UNPAVED ROUTE 5.119 5.119 INTERSECTION RIGHT UNPAVED ROUTE 5.132 5.121 SIGN RIGHT UNPAVED ROUTE 5.198 5.198 INTERSECTION LEFT UNPAVED ROUTE 5.206 5.267 PAVED DITCH LEFT 5.247 5.247 SIGN RIGHT UNPAVED ROUTE 5.247	4.099	4.099	INTERSECTION	RIGHT	UNPAVED ROUTE
4.104 4.104 SIGN RIGHT REGULATORY, GRAPHIC SIGN, NO TEXT 4.396 4.396 CULVERT N/A 4.490 4.490 CULVERT N/A 4.542 4.542 CULVERT N/A 4.591 INTERSECTION RIGHT UNPAVED ROUTE 4.610 INTERSECTION RIGHT UNPAVED ROUTE 4.724 INTERSECTION RIGHT UNPAVED ROUTE 4.900 4.988 CURB LEFT 4.900 4.900 INTERSECTION RIGHT UNPAVED ROUTE 5.119 5.119 INTERSECTION RIGHT REGULATORY, SPEED LIMIT 45 5.132 5.132 CULVERT N/A 5.198 INTERSECTION LEFT UNPAVED ROUTE 5.206 5.267 PAVED DITCH LEFT 5.214 5.270 PAVED DITCH RIGHT WARNING, GRAPHIC SIGN, NO TEXT 5.278 1.000 RIGHT UNPAVED ROUTE UNPAVED ROUTE	4.103	4.202	PAVED DITCH	RIGHT	
4.396 4.396 CULVERT N/A 4.490 4.490 CULVERT N/A 4.542 4.542 CULVERT N/A 4.591 4.591 INTERSECTION RIGHT UNPAVED ROUTE 4.610 4.610 INTERSECTION RIGHT UNPAVED ROUTE 4.724 4.724 INTERSECTION RIGHT UNPAVED ROUTE 4.900 4.988 CURB LEFT 4.900 4.900 INTERSECTION RIGHT UNPAVED ROUTE 5.119 5.119 INTERSECTION RIGHT UNPAVED ROUTE 5.132 5.121 SIGN RIGHT UNPAVED ROUTE 5.198 5.198 INTERSECTION LEFT UNPAVED ROUTE 5.206 5.267 PAVED DITCH LEFT 5.214 5.270 PAVED DITCH RIGHT 5.247 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 5.278 INTERSECTION RIGHT UNPAVED ROUTE	4.104	4.104	SIGN	LEFT	REGULATORY, GRAPHIC SIGN, NO TEXT
4.490 4.490 CULVERT N/A 4.542 4.542 CULVERT N/A 4.591 4.591 INTERSECTION RIGHT UNPAVED ROUTE 4.610 4.610 INTERSECTION RIGHT UNPAVED ROUTE SPUR 4.724 4.724 INTERSECTION RIGHT UNPAVED ROUTE 4.730 4.988 CURB LEFT 4.900 4.900 INTERSECTION RIGHT UNPAVED ROUTE 5.119 5.119 INTERSECTION RIGHT REGULATORY, SPEED LIMIT 45 5.132 5.132 CULVERT N/A 5.198 INTERSECTION LEFT UNPAVED ROUTE 5.206 5.267 PAVED DITCH LEFT 5.214 5.270 PAVED DITCH RIGHT 5.247 5.247 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 5.278 INTERSECTION RIGHT UNPAVED ROUTE	4.104	4.104	SIGN	RIGHT	REGULATORY, GRAPHIC SIGN, NO TEXT
4.542 4.542 CULVERT N/A 4.591 4.591 INTERSECTION RIGHT UNPAVED ROUTE 4.610 4.610 INTERSECTION RIGHT UNPAVED ROUTE SPUR 4.724 4.724 INTERSECTION RIGHT UNPAVED ROUTE 4.730 4.988 CURB LEFT 4.900 4.900 INTERSECTION RIGHT UNPAVED ROUTE 5.119 5.119 INTERSECTION RIGHT REGULATORY, SPEED LIMIT 45 5.132 5.121 SIGN RIGHT REGULATORY, SPEED LIMIT 45 5.198 5.198 INTERSECTION LEFT UNPAVED ROUTE 5.206 5.267 PAVED DITCH LEFT 5.214 5.270 PAVED DITCH RIGHT 5.247 5.247 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 5.278 5.278 INTERSECTION RIGHT UNPAVED ROUTE	4.396	4.396	CULVERT	N/A	
4.591 4.591 INTERSECTION RIGHT UNPAVED ROUTE 4.610 4.610 INTERSECTION RIGHT UNPAVED ROUTE SPUR 4.724 4.724 INTERSECTION RIGHT UNPAVED ROUTE 4.730 4.988 CURB LEFT 4.900 4.900 INTERSECTION RIGHT UNPAVED ROUTE 5.119 5.119 INTERSECTION RIGHT REGULATORY, SPEED LIMIT 45 5.121 5.121 SIGN RIGHT REGULATORY, SPEED LIMIT 45 5.132 5.132 CULVERT N/A 5.198 INTERSECTION LEFT UNPAVED ROUTE 5.206 5.267 PAVED DITCH LEFT 5.214 5.270 PAVED DITCH RIGHT 5.247 5.247 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 5.278 INTERSECTION RIGHT UNPAVED ROUTE	4.490	4.490	CULVERT	N/A	
4.610 4.610 INTERSECTION RIGHT UNPAVED ROUTE SPUR 4.724 4.724 INTERSECTION RIGHT UNPAVED ROUTE 4.730 4.988 CURB LEFT 4.900 4.900 INTERSECTION RIGHT UNPAVED ROUTE 5.119 5.119 INTERSECTION RIGHT UNPAVED ROUTE 5.121 5.121 SIGN RIGHT REGULATORY, SPEED LIMIT 45 5.132 5.132 CULVERT N/A 5.198 INTERSECTION LEFT UNPAVED ROUTE 5.206 5.267 PAVED DITCH LEFT 5.214 5.270 PAVED DITCH RIGHT 5.247 5.247 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 5.278 INTERSECTION RIGHT UNPAVED ROUTE	4.542	4.542	CULVERT	N/A	
4.724 4.724 INTERSECTION RIGHT UNPAVED ROUTE 4.730 4.988 CURB LEFT 4.900 4.900 INTERSECTION RIGHT UNPAVED ROUTE 5.119 5.119 INTERSECTION RIGHT UNPAVED ROUTE 5.121 5.121 SIGN RIGHT REGULATORY, SPEED LIMIT 45 5.132 5.132 CULVERT N/A 5.198 5.198 INTERSECTION LEFT UNPAVED ROUTE 5.206 5.267 PAVED DITCH LEFT 5.214 5.270 PAVED DITCH RIGHT 5.247 5.247 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 5.278 INTERSECTION RIGHT UNPAVED ROUTE	4.591	4.591	INTERSECTION	RIGHT	UNPAVED ROUTE
4.730 4.988 CURB LEFT 4.900 4.900 INTERSECTION RIGHT UNPAVED ROUTE 5.119 5.119 INTERSECTION RIGHT UNPAVED ROUTE 5.121 5.121 SIGN RIGHT REGULATORY, SPEED LIMIT 45 5.132 5.132 CULVERT N/A 5.198 5.198 INTERSECTION LEFT UNPAVED ROUTE 5.206 5.267 PAVED DITCH LEFT 5.214 5.270 PAVED DITCH RIGHT 5.247 5.247 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 5.278 INTERSECTION RIGHT UNPAVED ROUTE	4.610	4.610	INTERSECTION	RIGHT	UNPAVED ROUTE SPUR
4.900 4.900 INTERSECTION RIGHT UNPAVED ROUTE 5.119 5.119 INTERSECTION RIGHT UNPAVED ROUTE 5.121 5.121 SIGN RIGHT REGULATORY, SPEED LIMIT 45 5.132 5.132 CULVERT N/A 5.198 5.198 INTERSECTION LEFT UNPAVED ROUTE 5.206 5.267 PAVED DITCH LEFT 5.214 5.270 PAVED DITCH RIGHT 5.247 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 5.278 5.278 INTERSECTION RIGHT UNPAVED ROUTE	4.724	4.724	INTERSECTION	RIGHT	UNPAVED ROUTE
5.119 5.119 INTERSECTION RIGHT UNPAVED ROUTE 5.121 5.121 SIGN RIGHT REGULATORY, SPEED LIMIT 45 5.132 5.132 CULVERT N/A 5.198 5.198 INTERSECTION LEFT UNPAVED ROUTE 5.206 5.267 PAVED DITCH LEFT 5.214 5.270 PAVED DITCH RIGHT 5.247 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 5.278 5.278 INTERSECTION RIGHT UNPAVED ROUTE	4.730	4.988	CURB	LEFT	
5.121 SIGN RIGHT REGULATORY, SPEED LIMIT 45 5.132 5.132 CULVERT N/A 5.198 5.198 INTERSECTION LEFT UNPAVED ROUTE 5.206 5.267 PAVED DITCH LEFT 5.214 5.270 PAVED DITCH RIGHT 5.247 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 5.278 5.278 INTERSECTION RIGHT UNPAVED ROUTE	4.900	4.900	INTERSECTION	RIGHT	UNPAVED ROUTE
5.132 5.132 CULVERT N/A 5.198 5.198 INTERSECTION LEFT UNPAVED ROUTE 5.206 5.267 PAVED DITCH LEFT 5.214 5.270 PAVED DITCH RIGHT 5.247 5.247 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 5.278 5.278 INTERSECTION RIGHT UNPAVED ROUTE	5.119	5.119	INTERSECTION	RIGHT	UNPAVED ROUTE
5.198 5.198 INTERSECTION LEFT UNPAVED ROUTE 5.206 5.267 PAVED DITCH LEFT 5.214 5.270 PAVED DITCH RIGHT 5.247 5.247 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 5.278 5.278 INTERSECTION RIGHT UNPAVED ROUTE	5.121	5.121	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
5.206 5.267 PAVED DITCH LEFT 5.214 5.270 PAVED DITCH RIGHT 5.247 5.247 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 5.278 5.278 INTERSECTION RIGHT UNPAVED ROUTE	5.132	5.132	CULVERT	N/A	
5.2145.270PAVED DITCHRIGHT5.2475.247SIGNRIGHTWARNING, GRAPHIC SIGN, NO TEXT5.2785.278INTERSECTIONRIGHTUNPAVED ROUTE	5.198	5.198	INTERSECTION	LEFT	UNPAVED ROUTE
5.2475.247SIGNRIGHTWARNING, GRAPHIC SIGN, NO TEXT5.2785.278INTERSECTIONRIGHTUNPAVED ROUTE	5.206	5.267	PAVED DITCH	LEFT	
5.278 5.278 INTERSECTION RIGHT UNPAVED ROUTE	5.214	5.270	PAVED DITCH	RIGHT	
	5.247	5.247	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
5.303 SIGN RIGHT GUIDE, WHITE HOUSE OVERLOOK	5.278	5.278	INTERSECTION	RIGHT	UNPAVED ROUTE
	5.303	5.303	SIGN	RIGHT	GUIDE, WHITE HOUSE OVERLOOK
5.357 5.357 INTERSECTION RIGHT UNPAVED ROUTE	5.357	5.357	INTERSECTION	RIGHT	UNPAVED ROUTE
5.360 5.360 INTERSECTION LEFT ROUTE 0103 (WHITE HOUSE OVERLOOK ROAD)	5.360	5.360	INTERSECTION	LEFT	ROUTE 0103 (WHITE HOUSE OVERLOOK ROAD)

ROUTE 0010: INDIAN ROUTE 7 (SOUTH RIM DRIVE)

5406 5.406 CULVERT N/A 5427 \$427 \$13GN RIGHT GUIDE, WHITE HOUSE OVERLOOK 5.479 \$479 \$13GN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 5.494 \$5.494 INTERSECTION LEFT UNPAVED ROUTE \$5.909 \$5.509 INTERSECTION RIGHT UNPAVED ROUTE \$5.93 \$5.93 \$13GN RIGHT REGULATORY, SPEED LIMIT 45 \$693 \$5.693 INTERSECTION LEFT UNPAVED ROUTE \$771 \$7.888 CURB LEFT UNPAVED ROUTE \$792 \$8.888 CURB LEFT UNPAVED ROUTE \$793 \$5.980 CURB LEFT \$594 \$5.964 CULVERT N/A \$5988 INTERSECTION RIGHT UNPAVED ROUTE \$6077 \$6.907 INTERSECTION RIGHT UNPAVED ROUTE \$6144 \$CULVERT N/A N/A \$6176 \$6.221 INTERSECTION RIGHT UNPAVED ROUT	FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
5.479 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 5.494 5.494 INTERSECTION LEFT UNPAVED ROUTE 5.509 5.509 INTERSECTION RIGHT UNPAVED ROUTE 5.593 5.593 SIGN RIGHT UNPAVED ROUTE 5.693 5.693 INTERSECTION LIFT UNPAVED ROUTE 5.761 5.761 INTERSECTION RIGHT UNPAVED ROUTE 5.779 5.888 CURB LEFT 5.828 5.828 CULVERT N/A 5.888 5.932 PAVED DITCH LEFT 5.940 5.964 CULVERT N/A 5.988 INTERSECTION RIGHT UNPAVED ROUTE 6.997 INTERSECTION RIGHT UNPAVED ROUTE 6.144 CULVERT N/A 6.144 CULVERT N/A 6.197 INTERSECTION RIGHT UNPAVED ROUTE 6.221 INTERSECTION RIGHT UNPAVED ROUTE 6.236 6.3	5.406	5.406	CULVERT	N/A	
5.494 5.494 INTERSECTION LEFT UNPAVED ROUTE 5.509 5.509 INTERSECTION RIGHT UNPAVED ROUTE 5.593 5.593 SIGN RIGHT UNPAVED ROUTE 5.693 5.693 INTERSECTION LEFT UNPAVED ROUTE 5.761 5.761 INTERSECTION RIGHT UNPAVED ROUTE 5.779 5.888 CURB LEFT 5.828 5.828 CULVERT N/A 5.888 5.932 PAVED DITCH LEFT 5.964 5.964 CULVERT N/A 5.988 INTERSECTION RIGHT UNPAVED ROUTE 6.097 6.097 INTERSECTION RIGHT UNPAVED ROUTE 6.144 6.144 CULVERT N/A 6.197 INTERSECTION LEFT UNPAVED ROUTE 6.221 6.221 INTERSECTION LEFT UNPAVED ROUTE 6.308 INTERSECTION LIGHT UNPAVED ROUTE 6.521 6.562 CURB	5.427	5.427	SIGN	RIGHT	GUIDE, WHITE HOUSE OVERLOOK
5.509 S.509 INTERSECTION RIGHT UNPAVED ROUTE 5.593 5.593 SIGN RIGHT REGULATORY, SPEED LIMIT 45 5.693 5.693 INTERSECTION LEFT UNPAVED ROUTE 5.761 5.761 INTERSECTION RIGHT UNPAVED ROUTE 5.779 5.888 CURB LEFT 5.828 5.828 CULVERT N/A 5.888 5.932 PAVED DITCH LEFT 5.964 CULVERT N/A 5.988 INTERSECTION RIGHT UNPAVED ROUTE 5.991 5.991 INTERSECTION RIGHT UNPAVED ROUTE 6.097 6.097 INTERSECTION RIGHT UNPAVED ROUTE 6.144 6.144 CULVERT N/A 6.197 INTERSECTION RIGHT UNPAVED ROUTE 6.221 INTERSECTION RIGHT UNPAVED ROUTE 6.236 6.369 CURB RIGHT UNPAVED ROUTE 6.534 CULVERT N/A	5.479	5.479	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
5.593 5.593 SIGN RIGHT REGULATORY, SPEED LIMIT 45 5.693 5.693 INTERSECTION LEFT UNPAVED ROUTE 5.761 5.761 INTERSECTION RIGHT UNPAVED ROUTE 5.779 5.888 CURB LEFT 5.828 5.828 CULVERT N/A 5.988 5.992 PAVED DITCH LEFT 5.964 5.964 CULVERT N/A 5.988 INTERSECTION RIGHT UNPAVED ROUTE 5.991 5.991 INTERSECTION LEFT UNPAVED ROUTE 6.097 6.097 INTERSECTION RIGHT UNPAVED ROUTE 6.144 6.144 CULVERT N/A 6.197 6.197 INTERSECTION LEFT UNPAVED ROUTE 6.221 6.221 INTERSECTION RIGHT UNPAVED ROUTE 6.308 6.308 INTERSECTION LEFT UNPAVED ROUTE 6.521 6.522 CURB RIGHT 6.634 6.534	5.494	5.494	INTERSECTION	LEFT	UNPAVED ROUTE
5.693 5.693 INTERSECTION LEFT UNPAVED ROUTE 5.761 5.761 INTERSECTION RIGHT UNPAVED ROUTE 5.779 5.888 CURB LEFT 5.828 5.828 CULVERT N/A 5.888 5.932 PAVED DITCH LEFT 5.933 5.989 CURB LEFT 5.964 5.964 CULVERT N/A 5.988 INTERSECTION RIGHT UNPAVED ROUTE 6.097 6.991 INTERSECTION RIGHT UNPAVED ROUTE 6.144 6.144 CULVERT N/A 6.197 INTERSECTION LEFT UNPAVED ROUTE 6.221 6.221 INTERSECTION LEFT UNPAVED ROUTE 6.225 6.369 CURB RIGHT UNPAVED ROUTE 6.308 6.308 INTERSECTION LEFT UNPAVED ROUTE 6.521 6.562 CURB RIGHT 6.524 6.544 CULVERT N/A 6	5.509	5.509	INTERSECTION	RIGHT	UNPAVED ROUTE
5.761 5.761 INTERSECTION RIGHT UNPAVED ROUTE 5.779 5.888 CURB LEFT 5.828 5.828 CULVERT N/A 5.888 5.932 PAVED DITCH LEFT 5.933 5.989 CURB LEFT 5.964 5.964 CULVERT N/A 5.988 INTERSECTION RIGHT UNPAVED ROUTE 6.991 5.991 INTERSECTION LEFT UNPAVED ROUTE 6.097 6.097 INTERSECTION RIGHT UNPAVED ROUTE 6.197 INTERSECTION LEFT UNPAVED ROUTE 6.221 INTERSECTION RIGHT UNPAVED ROUTE 6.275 6.369 CURB RIGHT UNPAVED ROUTE 6.308 6.308 INTERSECTION LEFT UNPAVED ROUTE 6.521 6.562 CURB RIGHT 6.524 6.554 CULVERT N/A 6.617 6.684 PAVED DITCH LEFT 6.634	5.593	5.593	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
5.779 5.888 CURB LEFT 5.828 5.828 CULVERT N/A 5.888 5.932 PAVED DITCH LEFT 5.933 5.989 CURB LEFT 5.964 5.964 CULVERT N/A 5.988 INTERSECTION RIGHT UNPAVED ROUTE 6.097 INTERSECTION RIGHT UNPAVED ROUTE 6.144 6.144 CULVERT N/A 6.197 INTERSECTION LEFT UNPAVED ROUTE 6.221 6.197 INTERSECTION RIGHT UNPAVED ROUTE 6.275 6.369 CURB RIGHT UNPAVED ROUTE 6.308 6.308 INTERSECTION LEFT UNPAVED ROUTE 6.521 6.562 CURB RIGHT 6.524 6.544 PAVED DITCH RIGHT 6.534 6.534 CULVERT N/A 6.640 PAVED DITCH LEFT 6.747 6.747 INTERSECTION RIGHT UNPAVED ROU	5.693	5.693	INTERSECTION	LEFT	UNPAVED ROUTE
5.828 5.828 CULVERT N/A 5.888 5.932 PAVED DITCH LEFT 5.933 5.989 CURB LEFT 5.964 5.964 CULVERT N/A 5.988 5.988 INTERSECTION RIGHT UNPAVED ROUTE 6.097 6.097 INTERSECTION RIGHT UNPAVED ROUTE 6.144 6.144 CULVERT N/A 6.197 INTERSECTION LEFT UNPAVED ROUTE 6.221 6.221 INTERSECTION RIGHT UNPAVED ROUTE 6.308 6.369 CURB RIGHT UNPAVED ROUTE 6.369 6.514 PAVED DITCH RIGHT RIGHT 6.521 6.562 CURB RIGHT N/A 6.534 6.534 CULVERT N/A 6.617 6.684 PAVED DITCH LEFT 6.747 6.747 INTERSECTION RIGHT UNPAVED ROUTE 6.754 6.754 INTERSECTION RIGHT UNPAVE	5.761	5.761	INTERSECTION	RIGHT	UNPAVED ROUTE
5.888 5.932 PAVED DITCH LEFT 5.933 5.989 CURB LEFT 5.964 5.964 CULVERT N/A 5.988 5.988 INTERSECTION RIGHT UNPAVED ROUTE 5.991 5.991 INTERSECTION LEFT UNPAVED ROUTE 6.097 6.097 INTERSECTION RIGHT UNPAVED ROUTE 6.144 CULVERT N/A 6.197 INTERSECTION LEFT UNPAVED ROUTE 6.221 INTERSECTION RIGHT UNPAVED ROUTE 6.275 6.369 CURB RIGHT 6.308 INTERSECTION LEFT UNPAVED ROUTE 6.509 6.514 PAVED DITCH RIGHT 6.521 6.562 CURB RIGHT 6.534 CULVERT N/A 6.634 PAVED DITCH LEFT 6.634 INTERSECTION RIGHT UNPAVED ROUTE 6.754 INTERSECTION RIGHT UNPAVED ROUTE 6.754 </td <td>5.779</td> <td>5.888</td> <td>CURB</td> <td>LEFT</td> <td></td>	5.779	5.888	CURB	LEFT	
5.933 5.989 CURB LEFT 5.964 5.964 CULVERT N/A 5.988 5.988 INTERSECTION RIGHT UNPAVED ROUTE 5.991 5.991 INTERSECTION LEFT UNPAVED ROUTE 6.097 6.097 INTERSECTION RIGHT UNPAVED ROUTE 6.144 6.144 CULVERT N/A 6.197 INTERSECTION LEFT UNPAVED ROUTE 6.221 6.197 INTERSECTION RIGHT 6.275 6.369 CURB RIGHT 6.308 INTERSECTION LEFT UNPAVED ROUTE 6.521 6.562 CURB RIGHT 6.534 6.534 CULVERT N/A 6.617 6.684 PAVED DITCH LEFT 6.634 INTERSECTION RIGHT UNPAVED ROUTE 6.754 6.754 INTERSECTION RIGHT UNPAVED ROUTE 6.754 6.754 INTERSECTION RIGHT UNPAVED ROUTE 6.826 </td <td>5.828</td> <td>5.828</td> <td>CULVERT</td> <td>N/A</td> <td></td>	5.828	5.828	CULVERT	N/A	
5.964 5.964 CULVERT N/A 5.988 5.988 INTERSECTION RIGHT UNPAVED ROUTE 5.991 5.991 INTERSECTION LEFT UNPAVED ROUTE 6.097 6.097 INTERSECTION RIGHT UNPAVED ROUTE 6.144 6.144 CULVERT N/A 6.197 6.197 INTERSECTION LEFT UNPAVED ROUTE 6.221 6.221 INTERSECTION RIGHT UNPAVED ROUTE 6.308 6.308 INTERSECTION LEFT UNPAVED ROUTE 6.369 6.514 PAVED DITCH RIGHT 6.521 6.562 CURB RIGHT 6.534 6.534 CULVERT N/A 6.617 6.684 PAVED DITCH LEFT 6.634 INTERSECTION RIGHT UNPAVED ROUTE 6.747 6.747 INTERSECTION RIGHT UNPAVED ROUTE 6.764 INTERSECTION RIGHT UNPAVED ROUTE 6.826 INTERSECTION RI	5.888	5.932	PAVED DITCH	LEFT	
5.988 5.988 INTERSECTION RIGHT UNPAVED ROUTE 5.991 5.991 INTERSECTION LEFT UNPAVED ROUTE 6.097 6.097 INTERSECTION RIGHT UNPAVED ROUTE 6.144 6.144 CULVERT N/A 6.197 6.197 INTERSECTION LEFT UNPAVED ROUTE 6.221 6.221 INTERSECTION RIGHT 6.308 6.308 INTERSECTION LEFT UNPAVED ROUTE 6.369 6.514 PAVED DITCH RIGHT 6.521 6.562 CURB RIGHT 6.534 6.534 CULVERT N/A 6.617 6.684 PAVED DITCH LEFT 6.634 INTERSECTION RIGHT UNPAVED ROUTE 6.747 6.747 INTERSECTION RIGHT UNPAVED ROUTE 6.754 6.754 INTERSECTION RIGHT UNPAVED ROUTE 6.826 INTERSECTION RIGHT UNPAVED ROUTE 6.902 INTERSECTION	5.933	5.989	CURB	LEFT	
5.991 5.991 INTERSECTION LEFT UNPAVED ROUTE 6.097 6.097 INTERSECTION RIGHT UNPAVED ROUTE 6.144 6.144 CULVERT N/A 6.197 6.197 INTERSECTION LEFT UNPAVED ROUTE 6.221 6.221 INTERSECTION RIGHT UNPAVED ROUTE 6.308 6.369 CURB RIGHT 6.369 6.514 PAVED DITCH RIGHT 6.521 6.562 CURB RIGHT 6.534 6.534 CULVERT N/A 6.617 6.684 PAVED DITCH LEFT 6.634 6.634 INTERSECTION RIGHT UNPAVED ROUTE 6.747 6.747 INTERSECTION RIGHT UNPAVED ROUTE 6.754 6.754 INTERSECTION RIGHT UNPAVED ROUTE 6.764 6.764 INTERSECTION RIGHT UNPAVED ROUTE 6.902 6.902 INTERSECTION LEFT UNPAVED ROUTE 6.954	5.964	5.964	CULVERT	N/A	
6.097 6.097 INTERSECTION RIGHT UNPAVED ROUTE 6.144 6.144 CULVERT N/A 6.197 6.197 INTERSECTION LEFT UNPAVED ROUTE 6.221 6.221 INTERSECTION RIGHT UNPAVED ROUTE 6.308 6.369 CURB RIGHT 6.369 6.514 PAVED DITCH RIGHT 6.521 6.562 CURB RIGHT 6.534 6.534 CULVERT N/A 6.617 6.684 PAVED DITCH LEFT 6.634 6.634 INTERSECTION RIGHT UNPAVED ROUTE 6.747 6.747 INTERSECTION RIGHT UNPAVED ROUTE 6.754 6.754 INTERSECTION RIGHT UNPAVED ROUTE 6.826 6.826 INTERSECTION RIGHT UNPAVED ROUTE 6.902 6.902 INTERSECTION LEFT UNPAVED ROUTE 6.954 CULVERT N/A 7.010 1NTERSECTION LEFT	5.988	5.988	INTERSECTION	RIGHT	UNPAVED ROUTE
6.144 6.144 CULVERT N/A 6.197 6.197 INTERSECTION LEFT UNPAVED ROUTE 6.221 6.221 INTERSECTION RIGHT UNPAVED ROUTE 6.275 6.369 CURB RIGHT 6.308 6.308 INTERSECTION LEFT UNPAVED ROUTE 6.369 6.514 PAVED DITCH RIGHT 6.521 6.562 CURB RIGHT 6.534 6.534 CULVERT N/A 6.617 6.684 PAVED DITCH LEFT 6.634 INTERSECTION RIGHT UNPAVED ROUTE 6.747 6.747 INTERSECTION RIGHT UNPAVED ROUTE 6.754 6.754 INTERSECTION RIGHT UNPAVED ROUTE 6.826 INTERSECTION RIGHT UNPAVED ROUTE 6.902 6.902 INTERSECTION LEFT UNPAVED ROUTE 6.954 CULVERT N/A 7.010 INTERSECTION LEFT UNPAVED ROUTE SPUR	5.991	5.991	INTERSECTION	LEFT	UNPAVED ROUTE
6.197 6.197 INTERSECTION LEFT UNPAVED ROUTE 6.221 6.221 INTERSECTION RIGHT 6.275 6.369 CURB RIGHT 6.308 6.308 INTERSECTION LEFT UNPAVED ROUTE 6.369 6.514 PAVED DITCH RIGHT 6.521 6.562 CURB RIGHT 6.534 6.534 CULVERT N/A 6.617 6.684 PAVED DITCH LEFT 6.634 6.634 INTERSECTION RIGHT UNPAVED ROUTE 6.747 6.747 INTERSECTION RIGHT UNPAVED ROUTE 6.754 6.754 INTERSECTION RIGHT UNPAVED ROUTE 6.826 6.826 INTERSECTION RIGHT UNPAVED ROUTE 6.902 6.902 INTERSECTION LEFT UNPAVED ROUTE 6.954 CULVERT N/A 7.010 INTERSECTION LEFT UNPAVED ROUTE SPUR	6.097	6.097	INTERSECTION	RIGHT	UNPAVED ROUTE
6.221 6.221 INTERSECTION RIGHT UNPAVED ROUTE 6.275 6.369 CURB RIGHT 6.308 6.308 INTERSECTION LEFT UNPAVED ROUTE 6.369 6.514 PAVED DITCH RIGHT 6.521 6.562 CURB RIGHT 6.534 6.534 CULVERT N/A 6.617 6.684 PAVED DITCH LEFT 6.634 6.634 INTERSECTION RIGHT UNPAVED ROUTE 6.747 6.747 INTERSECTION RIGHT UNPAVED ROUTE 6.754 6.754 INTERSECTION RIGHT UNPAVED ROUTE 6.826 6.826 INTERSECTION RIGHT UNPAVED ROUTE 6.902 6.902 INTERSECTION LEFT UNPAVED ROUTE 6.954 CULVERT N/A 7.010 1NTERSECTION LEFT UNPAVED ROUTE SPUR	6.144	6.144	CULVERT	N/A	
6.275 6.369 CURB RIGHT 6.308 6.308 INTERSECTION LEFT UNPAVED ROUTE 6.369 6.514 PAVED DITCH RIGHT 6.521 6.562 CURB RIGHT 6.534 6.534 CULVERT N/A 6.617 6.684 PAVED DITCH LEFT 6.634 6.634 INTERSECTION RIGHT UNPAVED ROUTE 6.747 6.747 INTERSECTION RIGHT UNPAVED ROUTE 6.754 6.754 INTERSECTION RIGHT UNPAVED ROUTE 6.826 6.826 INTERSECTION RIGHT UNPAVED ROUTE 6.902 6.902 INTERSECTION LEFT UNPAVED ROUTE 6.954 CULVERT N/A 7.010 7.010 INTERSECTION LEFT UNPAVED ROUTE SPUR	6.197	6.197	INTERSECTION	LEFT	UNPAVED ROUTE
6.308 6.308 INTERSECTION LEFT UNPAVED ROUTE 6.369 6.514 PAVED DITCH RIGHT 6.521 6.562 CURB RIGHT 6.534 6.534 CULVERT N/A 6.617 6.684 PAVED DITCH LEFT 6.634 6.634 INTERSECTION RIGHT UNPAVED ROUTE 6.747 6.747 INTERSECTION RIGHT UNPAVED ROUTE 6.754 6.754 INTERSECTION RIGHT UNPAVED ROUTE 6.826 6.826 INTERSECTION RIGHT UNPAVED ROUTE 6.902 6.902 INTERSECTION LEFT UNPAVED ROUTE 6.954 CULVERT N/A 7.010 7.010 INTERSECTION LEFT UNPAVED ROUTE SPUR	6.221	6.221	INTERSECTION	RIGHT	UNPAVED ROUTE
6.369 6.514 PAVED DITCH RIGHT 6.521 6.562 CURB RIGHT 6.534 6.534 CULVERT N/A 6.617 6.684 PAVED DITCH LEFT 6.634 INTERSECTION RIGHT UNPAVED ROUTE 6.747 6.747 INTERSECTION RIGHT UNPAVED ROUTE 6.754 6.754 INTERSECTION RIGHT UNPAVED ROUTE 6.764 6.764 INTERSECTION RIGHT UNPAVED ROUTE 6.902 6.902 INTERSECTION LEFT UNPAVED ROUTE 6.954 6.954 CULVERT N/A 7.010 7.010 INTERSECTION LEFT UNPAVED ROUTE SPUR	6.275	6.369	CURB	RIGHT	
6.521 6.562 CURB RIGHT 6.534 6.534 CULVERT N/A 6.617 6.684 PAVED DITCH LEFT 6.634 6.634 INTERSECTION RIGHT UNPAVED ROUTE 6.747 6.747 INTERSECTION RIGHT UNPAVED ROUTE 6.754 6.754 INTERSECTION RIGHT UNPAVED ROUTE 6.826 6.764 INTERSECTION RIGHT UNPAVED ROUTE 6.902 6.902 INTERSECTION LEFT UNPAVED ROUTE 6.954 CULVERT N/A 7.010 7.010 INTERSECTION LEFT UNPAVED ROUTE SPUR	6.308	6.308	INTERSECTION	LEFT	UNPAVED ROUTE
6.534 6.534 CULVERT N/A 6.617 6.684 PAVED DITCH LEFT 6.634 6.634 INTERSECTION RIGHT UNPAVED ROUTE 6.747 6.747 INTERSECTION RIGHT UNPAVED ROUTE 6.754 6.754 INTERSECTION RIGHT UNPAVED ROUTE 6.764 6.764 INTERSECTION RIGHT UNPAVED ROUTE 6.826 INTERSECTION RIGHT UNPAVED ROUTE 6.902 6.902 INTERSECTION LEFT UNPAVED ROUTE 6.954 CULVERT N/A 7.010 7.010 INTERSECTION LEFT UNPAVED ROUTE SPUR	6.369	6.514	PAVED DITCH	RIGHT	
6.617 6.684 PAVED DITCH LEFT 6.634 6.634 INTERSECTION RIGHT UNPAVED ROUTE 6.747 6.747 INTERSECTION RIGHT UNPAVED ROUTE 6.754 6.754 INTERSECTION RIGHT UNPAVED ROUTE 6.764 6.764 INTERSECTION RIGHT UNPAVED ROUTE 6.826 6.826 INTERSECTION LEFT UNPAVED ROUTE 6.902 6.902 INTERSECTION LEFT UNPAVED ROUTE 6.954 6.954 CULVERT N/A 7.010 7.010 INTERSECTION LEFT UNPAVED ROUTE SPUR	6.521	6.562	CURB	RIGHT	
6.634 INTERSECTION RIGHT UNPAVED ROUTE 6.747 6.747 INTERSECTION RIGHT UNPAVED ROUTE 6.754 6.754 INTERSECTION RIGHT UNPAVED ROUTE 6.764 6.764 INTERSECTION RIGHT UNPAVED ROUTE 6.826 6.826 INTERSECTION RIGHT UNPAVED ROUTE 6.902 6.902 INTERSECTION LEFT UNPAVED ROUTE 6.954 6.954 CULVERT N/A 7.010 7.010 INTERSECTION LEFT UNPAVED ROUTE SPUR	6.534	6.534	CULVERT	N/A	
6.747 6.747 INTERSECTION RIGHT UNPAVED ROUTE 6.754 6.754 INTERSECTION RIGHT UNPAVED ROUTE 6.764 6.764 INTERSECTION RIGHT UNPAVED ROUTE 6.826 6.826 INTERSECTION RIGHT UNPAVED ROUTE 6.902 6.902 INTERSECTION LEFT UNPAVED ROUTE 6.954 6.954 CULVERT N/A 7.010 7.010 INTERSECTION LEFT UNPAVED ROUTE SPUR	6.617	6.684	PAVED DITCH	LEFT	
6.754 6.754 INTERSECTION RIGHT UNPAVED ROUTE 6.764 6.764 INTERSECTION RIGHT UNPAVED ROUTE 6.826 6.826 INTERSECTION RIGHT UNPAVED ROUTE 6.902 6.902 INTERSECTION LEFT UNPAVED ROUTE 6.954 6.954 CULVERT N/A 7.010 7.010 INTERSECTION LEFT UNPAVED ROUTE SPUR	6.634	6.634	INTERSECTION	RIGHT	UNPAVED ROUTE
6.764 6.764 INTERSECTION RIGHT UNPAVED ROUTE 6.826 6.826 INTERSECTION RIGHT UNPAVED ROUTE 6.902 6.902 INTERSECTION LEFT UNPAVED ROUTE 6.954 6.954 CULVERT N/A 7.010 7.010 INTERSECTION LEFT UNPAVED ROUTE SPUR	6.747	6.747	INTERSECTION	RIGHT	UNPAVED ROUTE
6.826 INTERSECTION RIGHT UNPAVED ROUTE 6.902 6.902 INTERSECTION LEFT UNPAVED ROUTE 6.954 6.954 CULVERT N/A 7.010 7.010 INTERSECTION LEFT UNPAVED ROUTE SPUR	6.754	6.754	INTERSECTION	RIGHT	UNPAVED ROUTE
6.902 INTERSECTION LEFT UNPAVED ROUTE 6.954 6.954 CULVERT N/A 7.010 7.010 INTERSECTION LEFT UNPAVED ROUTE SPUR	6.764	6.764	INTERSECTION	RIGHT	UNPAVED ROUTE
6.954 6.954 CULVERT N/A 7.010 7.010 INTERSECTION LEFT UNPAVED ROUTE SPUR	6.826	6.826	INTERSECTION	RIGHT	UNPAVED ROUTE
7.010 7.010 INTERSECTION LEFT UNPAVED ROUTE SPUR	6.902	6.902	INTERSECTION	LEFT	UNPAVED ROUTE
	6.954	6.954	CULVERT	N/A	
7.024 7.024 INTERSECTION LEFT UNPAVED ROUTE	7.010	7.010	INTERSECTION	LEFT	UNPAVED ROUTE SPUR
	7.024	7.024	INTERSECTION	LEFT	UNPAVED ROUTE

ROUTE 0010: INDIAN ROUTE 7 (SOUTH RIM DRIVE)

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
7.076	7.076	INTERSECTION	LEFT	UNPAVED ROUTE
7.208	7.312	CURB	LEFT	
7.299	7.299	INTERSECTION	RIGHT	UNPAVED ROUTE
7.312	7.312	INTERSECTION	LEFT	UNPAVED ROUTE
7.317	7.383	PAVED DITCH	LEFT	
7.333	7.333	INTERSECTION	RIGHT	UNPAVED ROUTE
7.384	7.384	CULVERT	N/A	
7.460	7.460	CULVERT	N/A	
7.486	7.486	INTERSECTION	RIGHT	UNPAVED ROUTE
7.630	7.630	INTERSECTION	RIGHT	UNPAVED ROUTE
7.639	7.639	INTERSECTION	LEFT	UNPAVED ROUTE
7.642	7.642	INTERSECTION	RIGHT	UNPAVED ROUTE (HOGHAAN GALLERY ROAD / NON NPS)
7.709	7.785	CURB	LEFT	
7.785	7.856	PAVED DITCH	LEFT	
7.786	7.786	INTERSECTION	LEFT	UNPAVED ROUTE
7.851	7.851	INTERSECTION	LEFT	UNPAVED ROUTE
7.856	8.136	CURB	LEFT	
7.880	7.880	INTERSECTION	RIGHT	UNPAVED ROUTE SPUR
7.913	7.913	INTERSECTION	RIGHT	UNPAVED ROUTE
7.957	7.957	INTERSECTION	RIGHT	UNPAVED ROUTE SPUR
8.055	8.055	INTERSECTION	RIGHT	UNPAVED ROUTE
8.127	8.127	INTERSECTION	RIGHT	UNPAVED ROUTE
8.238	8.238	INTERSECTION	LEFT	UNPAVED ROUTE
8.277	8.277	INTERSECTION	RIGHT	UNPAVED ROUTE
8.302	8.302	CULVERT	N/A	
8.391	8.391	INTERSECTION	LEFT	UNPAVED ROUTE
8.394	8.394	INTERSECTION	RIGHT	UNPAVED ROUTE
8.466	8.598	PAVED DITCH	RIGHT	
8.475	8.475	INTERSECTION	LEFT	UNPAVED ROUTE
8.494	8.494	INTERSECTION	RIGHT	UNPAVED ROUTE
8.506	8.506	INTERSECTION	RIGHT	UNPAVED ROUTE SPUR
8.609	8.609	CULVERT	N/A	
8.666	8.666	CULVERT	N/A	
8.674	8.763	CURB	LEFT	

ROUTE 0010: INDIAN ROUTE 7 (SOUTH RIM DRIVE)

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
8.788	8.788	INTERSECTION	LEFT	UNPAVED ROUTE
8.796	8.796	INTERSECTION	RIGHT	UNPAVED ROUTE
8.846	8.846	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
8.928	8.928	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
8.982	8.982	SIGN	RIGHT	GUIDE, SLIDING HOUSE OVERLOOK
9.042	9.042	INTERSECTION	LEFT	ROUTE 0102 (SLIDING HOUSE OVERLOOK ROAD)
9.109	9.109	SIGN	RIGHT	GUIDE, SLIDING HOUSE OVERLOOK
9.164	9.164	INTERSECTION	LEFT	UNPAVED ROUTE
9.176	9.176	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
9.235	9.235	INTERSECTION	RIGHT	UNPAVED ROUTE
9.309	9.369	PAVED DITCH	LEFT	
9.327	9.327	INTERSECTION	RIGHT	UNPAVED ROUTE
9.351	9.351	INTERSECTION	RIGHT	UNPAVED ROUTE
9.369	9.498	CURB	LEFT	
9.412	9.412	INTERSECTION	RIGHT	UNPAVED ROUTE
9.547	9.547	INTERSECTION	LEFT	UNPAVED ROUTE
9.793	9.793	INTERSECTION	RIGHT	UNPAVED ROUTE
9.812	9.812	INTERSECTION	RIGHT	UNPAVED ROUTE SPUR
9.817	9.963	CURB	LEFT	
9.883	9.883	INTERSECTION	RIGHT	UNPAVED ROUTE
9.923	10.152	CURB	RIGHT	
9.925	9.925	CULVERT	N/A	
10.087	10.087	CULVERT	N/A	
10.196	10.196	CULVERT	N/A	
10.237	10.292	PAVED DITCH	RIGHT	
10.295	10.371	CURB	RIGHT	
10.332	10.332	CULVERT	N/A	
10.352	10.352	CULVERT	N/A	
10.371	10.430	PAVED DITCH	RIGHT	
10.422	10.422	INTERSECTION	LEFT	UNPAVED ROUTE
10.579	10.579	INTERSECTION	LEFT	UNPAVED ROUTE
10.579	10.579	INTERSECTION	RIGHT	UNPAVED ROUTE
10.648	10.648	CULVERT	N/A	
10.742	10.742	CULVERT	N/A	

ROUTE 0010: INDIAN ROUTE 7 (SOUTH RIM DRIVE)

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
10.772	10.772	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
10.825	10.825	SIGN	RIGHT	GUIDE, SPIDER ROCK CAMPGROUND
10.849	10.859	CURB	LEFT	
10.852	10.852	INTERSECTION	RIGHT	UNPAVED ROUTE
10.860	10.860	INTERSECTION	LEFT	UNPAVED ROUTE (SPIDER ROCK CAMPGROUND)
10.861	10.861	SIGN	LEFT	GUIDE, SPIDER ROCK CAMPGROUND RV'S AND TENTS
10.861	10.861	SIGN	RIGHT	GUIDE, SPIDER ROCK CAMPGROUND RV'S AND TENTS
10.866	10.935	CURB	LEFT	
10.951	10.951	INTERSECTION	RIGHT	UNPAVED ROUTE
11.009	11.009	INTERSECTION	RIGHT	UNPAVED ROUTE
11.024	11.024	INTERSECTION	LEFT	UNPAVED ROUTE
11.032	11.095	CURB	LEFT	
11.054	11.054	INTERSECTION	RIGHT	UNPAVED ROUTE
11.099	11.112	CURB	LEFT	
11.118	11.132	CURB	LEFT	
11.184	11.184	INTERSECTION	LEFT	UNPAVED ROUTE SPUR
11.199	11.199	INTERSECTION	LEFT	UNPAVED ROUTE
11.269	11.269	SIGN	RIGHT	WARNING, PAVEMENT ENDS 1000 FT
11.287	11.287	INTERSECTION	LEFT	UNPAVED ROUTE
11.306	11.306	SIGN	RIGHT	REGULATORY, RADAR ENFORCED
11.306	11.306	SIGN	RIGHT	REGULATORY, SPEED LIMIT 45
11.341	11.341	INTERSECTION	RIGHT	UNPAVED ROUTE
11.345	11.345	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
11.394	11.394	INTERSECTION	LEFT	UNPAVED ROUTE
11.404	11.404	INTERSECTION	RIGHT	UNPAVED ROUTE
11.420	11.420	SIGN	RIGHT	GUIDE, SPIDER ROCK OVERLOOK FT. DEFIANCE
11.442	11.442	INTERSECTION	LEFT	ROUTE 0101 (SPIDER ROCK OVERLOOK ROAD)
11.458	11.458	SIGN	RIGHT	GUIDE, TOTSONI RANCH HORSE RENTAL
11.460	11.460	INTERSECTION	N/A	UNPAVED ROUTE (INDIAN ROUTE 7 (STATE MAINTAINED / NON NPS))
11.460	11.460	ROUTE END	N/A	TO END OF PAVEMENT AND ROUTE 0101 (SPIDER ROCK OVERLOOK ROAD) ON LEFT

ROUTE 0100: LODGE CAMPGROUND ACCESS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0010 (INDIAN ROUTE 7 (SOUTH RIM DRIVE)) AT MP 0.52 (ON RIGHT)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0010 (INDIAN ROUTE 7 (SOUTH RIM DRIVE))
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0010 (INDIAN ROUTE 7 (SOUTH RIM DRIVE))
0.000	0.000	SIGN	N/A	GUIDE, CHINLE VISITOR CENTER SOUTH RIM DRIVE
0.000	0.000	SIGN	RIGHT	REGULATORY, STOP
0.028	0.028	SIGN	RIGHT	WARNING, SLOW
0.028	0.028	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.086	0.086	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
0.206	0.206	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
0.237	0.237	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.267	0.267	SIGN	LEFT	GUIDE, CAMPGROUND NON-FEE AREA UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE
0.281	0.281	CATTLE GUARD	N/A	
0.286	0.286	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
0.296	0.296	INTERSECTION	RIGHT	ROUTE 0200 (CAMPGROUND/MAINTENANCE ACCESS ROAD)
0.302	0.302	SIGN	RIGHT	GUIDE, GRAPHIC SIGN, NO TEXT
0.312	0.312	INTERSECTION	RIGHT	ROUTE 0906 (THUNDERBIRD LODGE PARKING)
0.326	0.326	INTERSECTION	RIGHT	ROUTE 0914 (CANYON TOUR LOADING AREA)
0.362	0.362	INTERSECTION	RIGHT	ROUTE 0914 (CANYON TOUR LOADING AREA)
0.370	0.370	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
0.370	0.370	SIGN	RIGHT	WARNING, CAUTION TOUR TRUCK TURNING
0.385	0.385	INTERSECTION	LEFT	UNPAVED ROUTE
0.404	0.404	INTERSECTION	LEFT	ROUTE 0401 (RESIDENCE ROAD)
0.416	0.416	INTERSECTION	RIGHT	ROUTE 0906 (THUNDERBIRD LODGE PARKING)
0.419	0.422	CURB-AND-GUTTER	RIGHT	
0.426	0.426	INTERSECTION	RIGHT	ROUTE 0906 (THUNDERBIRD LODGE PARKING)
0.430	0.438	CURB-AND-GUTTER	RIGHT	
0.441	0.441	INTERSECTION	RIGHT	ROUTE 0906 (THUNDERBIRD LODGE PARKING)
0.444	0.447	CURB-AND-GUTTER	RIGHT	
0.447	0.447	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
0.456	0.456	INTERSECTION	RIGHT	ROUTE 0906 (THUNDERBIRD LODGE PARKING)
0.456	0.456	FIRE HYDRANT	LEFT	
0.460	0.460	INTERSECTION	N/A	ROUTE 0906 (THUNDERBIRD LODGE PARKING)

ROUTE 0100: LODGE CAMPGROUND ACCESS ROAD

FROM TO

MILEPOST	MILEPOST	FEATURE	SIDE	COMMENT
0.460	0.460	ROUTE END	N/A	TO ROUTE 0906 (THUNDERBIRD LODGE PARKING)

ROUTE 0101: SPIDER ROCK OVERLOOK ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0010 (INDIAN ROUTE 7 (SOUTH RIM DRIVE)) AT MP 11.44 (ON LEFT)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0010 (INDIAN ROUTE 7 (SOUTH RIM DRIVE))
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0010 (INDIAN ROUTE 7 (SOUTH RIM DRIVE))
0.000	0.000	SIGN	N/A	WARNING, GRAPHIC SIGN, NO TEXT
0.004	0.004	SIGN	RIGHT	REGULATORY, STOP
0.012	0.083	CURB	RIGHT	
0.014	0.096	CURB	LEFT	
0.076	0.076	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
0.096	0.109	PAVED DITCH	LEFT	
0.130	0.130	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.155	0.155	SIGN	RIGHT	REGULATORY, ADOPTED BY: COMMUNITY OF SPIDER ROCK
0.155	0.155	SIGN	RIGHT	REGULATORY, CANYON DE CHELLY NATIONAL MONUMENT
0.157	0.157	SIGN	RIGHT	WARNING, STOP AHEAD
0.169	0.169	INTERSECTION	RIGHT	UNPAVED ROUTE
0.181	0.271	CURB	RIGHT	
0.236	0.236	CULVERT	N/A	
0.271	0.516	CURB	RIGHT	
0.419	0.853	CURB	LEFT	
0.551	0.551	CULVERT	N/A	
0.573	0.573	INTERSECTION	RIGHT	UNPAVED ROUTE
0.668	0.668	CULVERT	N/A	
0.746	0.746	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.786	0.786	INTERSECTION	RIGHT	UNPAVED ROUTE
0.858	0.858	INTERSECTION	LEFT	UNPAVED ROUTE
0.858	0.858	INTERSECTION	RIGHT	UNPAVED ROUTE
0.860	1.006	CURB	LEFT	
0.904	0.934	PULLOUT	RIGHT	
0.947	0.947	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.004	1.004	SIGN	RIGHT	WARNING, SCHOOL BUS STOP AHEAD
1.009	1.009	INTERSECTION	LEFT	UNPAVED ROUTE
1.013	1.041	CURB	LEFT	
1.530	1.530	CULVERT	N/A	
1.549	1.614	CURB	LEFT	

ROUTE 0101: SPIDER ROCK OVERLOOK ROAD

1.615	FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
1.735	1.615	1.698	CURB	LEFT	
1.826	1.619	1.822	CURB	RIGHT	
1.924	1.735	1.811	CURB	LEFT	
1.942	1.826	1.890	CURB	RIGHT	
2,005 INTERSECTION RIGHT PAVED ROUTE (TURNAROUND / NON NPS) 2,039 2,039 INTERSECTION RIGHT PAVED ROUTE (TURNAROUND / NON NPS) 2,048 2,048 SIGN RIGHT GUIDE, GALLERY SPIDER ROCK U.M.C. "WALK BY FAITH" 2,056 2,056 SIGN RIGHT GUIDE, NO WOOD CUTTING 2,068 2,068 CULVERT N/A 2,119 SIGN RIGHT WARNING, SCHOOL BUS STOP AHEAD 2,292 2,364 CURB LEFT 2,344 CURB LEFT 2,374 2,530 CURB RIGHT 2,477 INTERSECTION LEFT UNPAVED ROUTE 2,483 2,527 CURB LEFT 2,530 2,544 CURB RIGHT 2,544 2,626 CURB RIGHT 2,626 2,703 CURB RIGHT 2,700 2,700 CULVERT N/A 2,702 2,774 CURB RIGHT 2,866 INTERSECTION	1.924	1.924	SIGN	RIGHT	WARNING, SCHOOL BUS STOP AHEAD
2.039	1.942	1.984	CURB	RIGHT	
2.048 2.048 SIGN RIGHT GUIDE, GALLERY SPIDER ROCK U.M.C. "WALK BY FAITH"	2.005	2.005	INTERSECTION	RIGHT	PAVED ROUTE (TURNAROUND / NON NPS)
2.056 SIGN RIGHT GUIDE, NO WOOD CUTTING 2.068 2.068 CULVERT N/A 2.119 SIGN RIGHT WARNING, SCHOOL BUS STOP AHEAD 2.292 2.364 CURB LEFT 2.364 2.449 CURB LEFT 2.374 2.530 CURB RIGHT 2.477 INTERSECTION LEFT UNPAVED ROUTE 2.483 2.527 CURB RIGHT 2.530 2.544 CURB RIGHT 2.530 2.544 CURB RIGHT 2.626 CURB RIGHT 2.626 2.703 CURB RIGHT 2.700 2.700 CULVERT N/A 2.753 2.844 CURB RIGHT 2.753 2.844 CURB RIGHT 2.829 2.907 CURB RIGHT 2.841 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 2.866 1NTERSECTION RIGHT UNPAVED ROUTE	2.039	2.039	INTERSECTION	RIGHT	PAVED ROUTE (TURNAROUND / NON NPS)
2.068	2.048	2.048	SIGN	RIGHT	GUIDE, GALLERY SPIDER ROCK U.M.C. "WALK BY FAITH"
2.119 2.119 SIGN RIGHT WARNING, SCHOOL BUS STOP AHEAD 2.292 2.364 CURB LEFT 2.364 2.449 CURB LEFT 2.374 2.530 CURB RIGHT 2.477 INTERSECTION LEFT UNPAVED ROUTE 2.483 2.527 CURB RIGHT 2.530 2.544 CURB RIGHT 2.530 2.544 CURB RIGHT 2.544 2.626 CURB RIGHT 2.626 2.703 CURB RIGHT 2.700 2.700 CULVERT N/A 2.702 2.774 CURB RIGHT 2.753 2.844 CURB RIGHT 2.829 2.907 CURB RIGHT 2.841 2.841 SIGN RIGHT 2.841 2.841 SIGN RIGHT 2.866 2.866 INTERSECTION RIGHT UNPAVED ROUTE 2.895 2.949 CURB LEFT 2.955 3.041 CURB RIGHT 2.957 2.957 INTERSECTION LEFT UNPAVED ROUTE 2.966 3.074 CURB LEFT 3.076 3.076 CULVERT N/A 3.116 3.197 CURB RIGHT 3.714 3.147 CURB LEFT 3.726 3.076 CULVERT N/A 3.116 3.197 CURB RIGHT 3.730 RIGHT 3.74 3.147 CURB LEFT 3.754 3.147 CURB RIGHT 3.755 RIGHT 3.756 3.076 CULVERT N/A 3.116 3.197 CURB RIGHT 3.757 RIGHT 3.758 RIGHT 3.759 RIGHT 3.750 RIGHT 3.750	2.056	2.056	SIGN	RIGHT	GUIDE, NO WOOD CUTTING
2.292 2.364 CURB LEFT 2.364 2.449 CURB LEFT 2.374 2.530 CURB RIGHT 2.477 2.477 INTERSECTION LEFT UNPAVED ROUTE 2.483 2.527 CURB LEFT 2.530 2.544 CURB RIGHT 2.544 2.626 CURB RIGHT 2.626 2.703 CURB RIGHT 2.700 2.700 CULVERT N/A 2.702 2.774 CURB RIGHT 2.829 2.907 CURB RIGHT 2.841 2.841 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 2.866 2.866 INTERSECTION RIGHT UNPAVED ROUTE 2.957 2.957 INTERSECTION LEFT UNPAVED ROUTE 2.966 3.074 CURB LEFT 3.076 3.076 CULVERT N/A 3.116 3.197 CURB RIGHT	2.068	2.068	CULVERT	N/A	
2.364 2.449 CURB LEFT 2.374 2.530 CURB RIGHT 2.477 2.477 INTERSECTION LEFT UNPAVED ROUTE 2.483 2.527 CURB LEFT 2.530 2.544 CURB RIGHT 2.544 2.626 CURB RIGHT 2.626 2.703 CURB RIGHT 2.700 2.700 CULVERT N/A 2.702 2.774 CURB RIGHT 2.829 2.907 CURB RIGHT 2.841 2.841 SIGN RIGHT 2.866 2.866 INTERSECTION RIGHT 2.955 3.041 CURB LEFT 2.957 2.957 INTERSECTION LEFT UNPAVED ROUTE 2.966 3.074 CURB LEFT 3.076 3.076 CULVERT N/A 3.116 3.197 CURB RIGHT	2.119	2.119	SIGN	RIGHT	WARNING, SCHOOL BUS STOP AHEAD
2.374 2.530 CURB RIGHT 2.477 2.477 INTERSECTION LEFT 2.483 2.527 CURB LEFT 2.530 2.544 CURB RIGHT 2.544 2.626 CURB RIGHT 2.700 2.703 CURB RIGHT 2.700 2.700 CULVERT N/A 2.702 2.774 CURB RIGHT 2.829 2.907 CURB RIGHT 2.841 2.841 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 2.866 2.866 INTERSECTION RIGHT UNPAVED ROUTE 2.955 3.041 CURB LEFT 2.957 2.957 INTERSECTION LEFT UNPAVED ROUTE 2.966 3.074 CURB LEFT 3.074 3.147 CURB LEFT 3.076 3.076 CULVERT N/A 3.116 3.197 CURB RIGHT	2.292	2.364	CURB	LEFT	
2.477 2.477 INTERSECTION LEFT UNPAVED ROUTE 2.483 2.527 CURB LEFT 2.530 2.544 CURB RIGHT 2.544 2.626 CURB RIGHT 2.700 2.703 CURB RIGHT 2.700 2.700 CULVERT N/A 2.702 2.774 CURB RIGHT 2.829 2.907 CURB RIGHT 2.841 2.841 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 2.866 2.866 INTERSECTION RIGHT UNPAVED ROUTE 2.955 3.041 CURB LEFT 2.957 2.957 INTERSECTION LEFT UNPAVED ROUTE 2.966 3.074 CURB LEFT 3.074 CURB LEFT 3.076 3.076 CULVERT N/A 3.116 3.197 CURB RIGHT	2.364	2.449	CURB	LEFT	
2.483 2.527 CURB LEFT 2.530 2.544 CURB RIGHT 2.544 2.626 CURB RIGHT 2.626 2.703 CURB RIGHT 2.700 2.700 CULVERT N/A 2.702 2.774 CURB RIGHT 2.753 2.844 CURB LEFT 2.829 2.907 CURB RIGHT 2.841 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 2.866 2.866 INTERSECTION RIGHT UNPAVED ROUTE 2.896 2.949 CURB LEFT 2.957 2.957 INTERSECTION LEFT UNPAVED ROUTE 2.966 3.074 CURB LEFT 3.074 3.147 CURB LEFT 3.076 CULVERT N/A 3.116 3.197 CURB RIGHT	2.374	2.530	CURB	RIGHT	
2.530 2.544 CURB RIGHT 2.544 2.626 CURB RIGHT 2.626 2.703 CURB RIGHT 2.700 2.700 CULVERT N/A 2.702 2.774 CURB RIGHT 2.753 2.844 CURB LEFT 2.829 2.907 CURB RIGHT 2.841 2.841 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 2.866 2.866 INTERSECTION RIGHT UNPAVED ROUTE 2.955 3.041 CURB RIGHT 2.957 2.957 INTERSECTION LEFT UNPAVED ROUTE 2.966 3.074 CURB LEFT 3.074 3.147 CURB LEFT 3.076 3.076 CULVERT N/A 3.116 3.197 CURB RIGHT	2.477	2.477	INTERSECTION	LEFT	UNPAVED ROUTE
2.544 2.626 CURB RIGHT 2.626 2.703 CURB RIGHT 2.700 2.700 CULVERT N/A 2.702 2.774 CURB RIGHT 2.753 2.844 CURB LEFT 2.829 2.907 CURB RIGHT 2.841 2.841 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 2.866 2.866 INTERSECTION RIGHT UNPAVED ROUTE 2.896 2.949 CURB LEFT 2.957 2.957 INTERSECTION LEFT UNPAVED ROUTE 2.966 3.074 CURB LEFT 3.074 3.147 CURB LEFT 3.076 3.076 CULVERT N/A 3.116 3.197 CURB RIGHT	2.483	2.527	CURB	LEFT	
2.626 2.703 CURB RIGHT 2.700 2.700 CULVERT N/A 2.702 2.774 CURB RIGHT 2.753 2.844 CURB LEFT 2.829 2.907 CURB RIGHT 2.841 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 2.866 2.866 INTERSECTION RIGHT UNPAVED ROUTE 2.955 3.041 CURB RIGHT 2.957 2.957 INTERSECTION LEFT UNPAVED ROUTE 2.966 3.074 CURB LEFT 3.074 3.147 CURB LEFT 3.076 3.076 CULVERT N/A 3.116 3.197 CURB RIGHT	2.530	2.544	CURB	RIGHT	
2.700 2.700 CULVERT N/A 2.702 2.774 CURB RIGHT 2.753 2.844 CURB LEFT 2.829 2.907 CURB RIGHT 2.841 2.841 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 2.866 2.866 INTERSECTION RIGHT UNPAVED ROUTE 2.896 2.949 CURB LEFT 2.955 3.041 CURB RIGHT 2.957 2.957 INTERSECTION LEFT UNPAVED ROUTE 2.966 3.074 CURB LEFT 3.074 3.147 CURB LEFT 3.076 3.076 CULVERT N/A 3.116 3.197 CURB RIGHT	2.544	2.626	CURB	RIGHT	
2.702 2.774 CURB RIGHT 2.753 2.844 CURB LEFT 2.829 2.907 CURB RIGHT 2.841 2.841 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 2.866 2.866 INTERSECTION RIGHT UNPAVED ROUTE 2.896 2.949 CURB LEFT 2.957 2.957 INTERSECTION LEFT UNPAVED ROUTE 2.966 3.074 CURB LEFT 3.074 3.147 CURB LEFT 3.076 3.076 CULVERT N/A 3.116 3.197 CURB RIGHT	2.626	2.703	CURB	RIGHT	
2.753 2.844 CURB LEFT 2.829 2.907 CURB RIGHT 2.841 2.841 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 2.866 2.866 INTERSECTION RIGHT UNPAVED ROUTE 2.896 2.949 CURB LEFT 2.955 3.041 CURB RIGHT 2.957 2.957 INTERSECTION LEFT UNPAVED ROUTE 2.966 3.074 CURB LEFT 3.074 3.147 CURB LEFT 3.076 3.076 CULVERT N/A 3.116 3.197 CURB RIGHT	2.700	2.700	CULVERT	N/A	
2.829 2.907 CURB RIGHT 2.841 2.841 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 2.866 2.866 INTERSECTION RIGHT UNPAVED ROUTE 2.896 2.949 CURB LEFT 2.955 3.041 CURB RIGHT 2.957 2.957 INTERSECTION LEFT UNPAVED ROUTE 2.966 3.074 CURB LEFT 3.074 3.147 CURB LEFT 3.076 3.076 CULVERT N/A 3.116 3.197 CURB RIGHT	2.702	2.774	CURB	RIGHT	
2.841 2.841 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 2.866 2.866 INTERSECTION RIGHT UNPAVED ROUTE 2.896 2.949 CURB LEFT 2.955 3.041 CURB RIGHT 2.957 2.957 INTERSECTION LEFT UNPAVED ROUTE 2.966 3.074 CURB LEFT 3.074 3.147 CURB LEFT 3.076 3.076 CULVERT N/A 3.116 3.197 CURB RIGHT	2.753	2.844	CURB	LEFT	
2.866 2.866 INTERSECTION RIGHT UNPAVED ROUTE 2.896 2.949 CURB LEFT 2.955 3.041 CURB RIGHT 2.957 2.957 INTERSECTION LEFT UNPAVED ROUTE 2.966 3.074 CURB LEFT 3.074 3.147 CURB LEFT 3.076 3.076 CULVERT N/A 3.116 3.197 CURB RIGHT	2.829	2.907	CURB	RIGHT	
2.896 2.949 CURB LEFT 2.955 3.041 CURB RIGHT 2.957 2.957 INTERSECTION LEFT UNPAVED ROUTE 2.966 3.074 CURB LEFT 3.074 3.147 CURB LEFT 3.076 3.076 CULVERT N/A 3.116 3.197 CURB RIGHT	2.841	2.841	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
2.955 3.041 CURB RIGHT 2.957 2.957 INTERSECTION LEFT UNPAVED ROUTE 2.966 3.074 CURB LEFT 3.074 3.147 CURB LEFT 3.076 3.076 CULVERT N/A 3.116 3.197 CURB RIGHT	2.866	2.866	INTERSECTION	RIGHT	UNPAVED ROUTE
2.957 2.957 INTERSECTION LEFT UNPAVED ROUTE 2.966 3.074 CURB LEFT 3.074 3.147 CURB LEFT 3.076 3.076 CULVERT N/A 3.116 3.197 CURB RIGHT	2.896	2.949	CURB	LEFT	
2.966 3.074 CURB LEFT 3.074 3.147 CURB LEFT 3.076 3.076 CULVERT N/A 3.116 3.197 CURB RIGHT	2.955	3.041	CURB	RIGHT	
3.074 3.147 CURB LEFT 3.076 3.076 CULVERT N/A 3.116 3.197 CURB RIGHT	2.957	2.957	INTERSECTION	LEFT	UNPAVED ROUTE
3.076 3.076 CULVERT N/A 3.116 3.197 CURB RIGHT	2.966	3.074	CURB	LEFT	
3.116 3.197 CURB RIGHT	3.074	3.147	CURB	LEFT	
	3.076	3.076	CULVERT	N/A	
3.146 3.188 CURB LEFT	3.116	3.197	CURB	RIGHT	
	3.146	3.188	CURB	LEFT	

ROUTE 0101: SPIDER ROCK OVERLOOK ROAD

3.188 3.26 3.196 3.19 3.224 3.22 3.261 3.2 3.268 3.3 3.303 3.3 3.354 3.4 3.406 3.4 3.422 3.4	196 224 273 354 353 454 406 422 423	CURB CULVERT SIGN CURB CURB CURB CURB CURB CULVERT	LEFT N/A RIGHT LEFT RIGHT LEFT RIGHT N/A N/A	WARNING, GRAPHIC SIGN, NO TEXT
3.224 3.22 3.261 3.2 3.268 3.3 3.303 3.3 3.354 3.4 3.406 3.40	2224 273 354 353 454 406 422 423	SIGN CURB CURB CURB CURB CURB CULVERT	RIGHT LEFT RIGHT LEFT RIGHT N/A	WARNING, GRAPHIC SIGN, NO TEXT
3.261 3.27 3.268 3.33 3.303 3.35 3.354 3.46 3.406 3.40	273 354 353 454 406 422 423	CURB CURB CURB CURB CULVERT CULVERT	LEFT RIGHT LEFT RIGHT N/A	WARNING, GRAPHIC SIGN, NO TEXT
3.268 3.35 3.303 3.35 3.354 3.40 3.406 3.40	354 353 454 406 422 423	CURB CURB CULVERT CULVERT	RIGHT LEFT RIGHT N/A	
3.303 3.33 3.354 3.45 3.406 3.40	353 454 406 422 423	CURB CURB CULVERT CULVERT	LEFT RIGHT N/A	
3.354 3.45 3.406 3.40	454 406 422 423	CURB CULVERT CULVERT	RIGHT N/A	
3.406 3.40	406 422 423	CULVERT	N/A	
	422 423	CULVERT		
3.422 3.42	423		N/A	
3.423 3.42	151	CULVERT	N/A	
3.451 3.45	T.J. 1	SIGN	RIGHT	GUIDE, FACE ROCK OVERLOOK
3.454 3.56	561	CURB	RIGHT	
3.515 3.53	515	INTERSECTION	LEFT	ROUTE 0915 (FACE ROCK OVERLOOK PARKING)
3.561 3.67	676	CURB	RIGHT	
3.590 3.59	590	SIGN	RIGHT	GUIDE, FACE ROCK OVERLOOK
3.674 3.67	574	CULVERT	N/A	
3.677 3.75	753	CURB	RIGHT	
3.682 3.74	744	CURB	LEFT	
3.751 3.75	751	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.752 3.75	752	CULVERT	N/A	
3.754 3.87	878	CURB	RIGHT	
3.756 3.75	756	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
3.771 3.87	878	CURB	LEFT	
3.914 3.92	914	CULVERT	N/A	
3.925 3.92	925	INTERSECTION	RIGHT	UNPAVED ROUTE
3.930 4.03	010	CURB	RIGHT	
3.944 4.02	010	CURB	LEFT	
4.028 4.02	028	INTERSECTION	RIGHT	UNPAVED ROUTE
4.075 4.17	173	CURB	LEFT	
4.277 4.47	478	CURB	LEFT	
4.303 4.30	303	SIGN	RIGHT	REGULATORY, REDUCED SPEED AHEAD
4.308 4.30	308	SIGN	RIGHT	REGULATORY, SPEED LIMIT 35
4.405 4.40	405	CULVERT	N/A	
4.409 4.40	409	SIGN	RIGHT	REGULATORY, PARKING

ROUTE 0101: SPIDER ROCK OVERLOOK ROAD

FROM	TO
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MILEPOST	MILEPOST	FEATURE	SIDE	COMMENT
4.478	4.480	CURB-AND-GUTTER	LEFT	
4.480	4.480	INTERSECTION	N/A	ROUTE 0907 (SPIDER ROCK OVERLOOK PARKING)
4.480	4.480	SIGN	LEFT	REGULATORY, DO NOT ENTER
4.480	4.480	SIGN	LEFT	REGULATORY, ONE WAY
4.480	4.480	ROUTE END	N/A	TO ROUTE 0907 (SPIDER ROCK OVERLOOK PARKING)

ROUTE 0102: SLIDING HOUSE OVERLOOK ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0010 (INDIAN ROUTE 7 (SOUTH RIM DRIVE)) AT MP 9.04 (ON LEFT)
0.000	0.000	SIGN	N/A	WARNING, GRAPHIC SIGN, NO TEXT
0.000	0.000	INTERSECTION	LEFT	ROUTE 0010 (INDIAN ROUTE 7 (SOUTH RIM DRIVE))
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0010 (INDIAN ROUTE 7 (SOUTH RIM DRIVE))
0.004	0.004	SIGN	RIGHT	REGULATORY, STOP
0.012	0.012	INTERSECTION	LEFT	UNPAVED ROUTE
0.021	0.021	SIGN	RIGHT	REGULATORY, UNABLE TO READ FROM VIDEO
0.021	0.021	SIGN	RIGHT	REGULATORY, UNABLE TO READ FROM VIDEO
0.029	0.029	INTERSECTION	LEFT	UNPAVED ROUTE
0.044	0.044	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.126	0.126	SIGN	RIGHT	WARNING, STOP AHEAD
0.266	0.266	INTERSECTION	RIGHT	UNPAVED ROUTE
0.399	0.399	INTERSECTION	LEFT	UNPAVED ROUTE
0.439	0.439	INTERSECTION	RIGHT	UNPAVED ROUTE
0.564	0.564	INTERSECTION	RIGHT	UNPAVED ROUTE
0.700	0.700	INTERSECTION	RIGHT	UNPAVED ROUTE
0.835	0.924	CURB	LEFT	
0.881	0.922	CURB	RIGHT	
0.924	0.973	PAVED DITCH	RIGHT	
1.088	1.088	INTERSECTION	LEFT	UNPAVED ROUTE
1.142	1.142	INTERSECTION	LEFT	UNPAVED ROUTE
1.209	1.209	CULVERT	N/A	
1.222	1.222	INTERSECTION	LEFT	UNPAVED ROUTE
1.227	1.227	INTERSECTION	RIGHT	UNPAVED ROUTE
1.238	1.238	INTERSECTION	LEFT	UNPAVED ROUTE
1.329	1.329	INTERSECTION	RIGHT	UNPAVED ROUTE
1.336	1.336	INTERSECTION	LEFT	UNPAVED ROUTE
1.420	1.511	CURB	RIGHT	
1.476	1.476	SIGN	RIGHT	REGULATORY, PARKING AREA AHEAD
1.511	1.513	PAVED DITCH	RIGHT	
1.526	1.526	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
1.610	1.610	INTERSECTION	N/A	ROUTE 0908 (SLIDING HOUSE OVERLOOK PARKING)
1.610	1.610	ROUTE END	N/A	TO ROUTE 0908 (SLIDING HOUSE OVERLOOK PARKING)

ROUTE 0103: WHITE HOUSE OVERLOOK ROAD

FROM	TO		GTD T	COLDINA
MILEPOST	MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0010 (INDIAN ROUTE 7 (SOUTH RIM DRIVE)) AT MP 5.36 (ON LEFT)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0010 (INDIAN ROUTE 7 (SOUTH RIM DRIVE))
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0010 (INDIAN ROUTE 7 (SOUTH RIM DRIVE))
0.003	0.003	SIGN	RIGHT	REGULATORY, STOP
0.004	0.015	CURB	LEFT	
0.017	0.017	SIGN	RIGHT	REGULATORY, ADOPTED BY: THUNDERBIRD LODGE
0.017	0.017	SIGN	RIGHT	REGULATORY, CANYON DE CHELLY NATIONAL MONUMENT
0.043	0.043	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.066	0.066	INTERSECTION	RIGHT	UNPAVED ROUTE
0.156	0.156	SIGN	RIGHT	WARNING, STOP AHEAD
0.443	0.443	INTERSECTION	RIGHT	UNPAVED ROUTE
0.482	0.560	CURB	RIGHT	
0.519	0.519	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.561	0.580	CURB	RIGHT	
0.580	0.580	INTERSECTION	N/A	ROUTE 0909 (WHITE HOUSE OVERLOOK PARKING)
0.580	0.580	ROUTE END	N/A	TO ROUTE 0909 (WHITE HOUSE OVERLOOK PARKING)

ROUTE 0104: MASSACRE CAVE OVERLOOK ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM INDIAN ROUTE 64 (NORTH RIM DRIVE)
0.000	0.000	INTERSECTION	RIGHT	PAVED ROUTE (INDIAN ROUTE 64 (NORTH RIM DRIVE) (STATE MAINTAINED / NON NPS))
0.000	0.000	INTERSECTION	LEFT	PAVED ROUTE (INDIAN ROUTE 64 (NORTH RIM DRIVE) (STATE MAINTAINED / NON NPS))
0.002	0.002	SIGN	RIGHT	REGULATORY, STOP
0.015	0.015	SIGN	RIGHT	WARNING, WHITING
0.062	0.062	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.172	0.172	SIGN	RIGHT	WARNING, STOP AHEAD
0.205	0.209	PAVED DITCH	RIGHT	
0.209	0.257	CURB	RIGHT	
0.210	0.210	INTERSECTION	LEFT	UNPAVED ROUTE
0.226	0.226	SIGN	RIGHT	GUIDE, ENTERING CANYON DE CHELLY NATIONAL MONUMENT
0.432	0.432	INTERSECTION	RIGHT	UNPAVED ROUTE
0.461	0.461	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.481	0.481	SIGN	RIGHT	GUIDE, NO WOOD CUTTING
0.559	0.559	INTERSECTION	RIGHT	ROUTE 0105 (MUMMY CAVE OVERLOOK ROAD)
0.574	0.644	CURB	LEFT	
0.577	0.577	SIGN	RIGHT	GUIDE, MASSACRE CAVE OVERLOOK MUMMY CAVE OVERLOOK
0.588	0.628	CURB	RIGHT	
0.612	0.612	SIGN	RIGHT	REGULATORY, ADOPTED BY: YAZZIE'S BOXING CLUB
0.612	0.612	SIGN	RIGHT	REGULATORY, CANYON DE CHELLY NATIONAL MONUMENT
0.628	0.632	PAVED DITCH	RIGHT	
0.644	0.649	PAVED DITCH	LEFT	
0.650	0.650	CATTLE GUARD	N/A	
0.694	0.694	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.695	0.739	CURB	LEFT	
0.739	0.744	PAVED DITCH	LEFT	
0.775	0.802	CURB	LEFT	
0.802	0.806	PAVED DITCH	LEFT	
0.832	0.832	INTERSECTION	LEFT	UNPAVED ROUTE
0.850	0.931	CURB	LEFT	
0.872	0.872	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT

ROUTE 0104: MASSACRE CAVE OVERLOOK ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.872	0.930	CURB	RIGHT	
0.930	0.936	PAVED DITCH	RIGHT	
0.931	0.935	PAVED DITCH	LEFT	
0.950	0.950	CULVERT	N/A	
0.963	0.969	PAVED DITCH	LEFT	
0.969	1.078	CURB	LEFT	
0.995	1.006	PAVED DITCH	RIGHT	
1.006	1.073	CURB	RIGHT	
1.078	1.088	PAVED DITCH	LEFT	
1.234	1.240	PAVED DITCH	LEFT	
1.240	1.327	CURB	LEFT	
1.260	1.306	CURB	RIGHT	
1.277	1.277	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.306	1.334	PAVED DITCH	RIGHT	
1.327	1.341	PAVED DITCH	LEFT	
1.335	1.335	SIGN	RIGHT	REGULATORY, PARKING AREA AHEAD
1.420	1.420	INTERSECTION	N/A	ROUTE 0910 (MASSACRE CAVE OVERLOOK PARKING)
1.420	1.420	ROUTE END	N/A	TO ROUTE 0910 (MASSACRE CAVE OVERLOOK PARKING)

ROUTE 0105: MUMMY CAVE OVERLOOK ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0104 (MASSACRE CAVE OVERLOOK ROAD) AT MP 0.56 (ON RIGHT)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0104 (MASSACRE CAVE OVERLOOK ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0104 (MASSACRE CAVE OVERLOOK ROAD)
0.004	0.004	SIGN	RIGHT	REGULATORY, STOP
0.006	0.040	PAVED DITCH	RIGHT	
0.038	0.038	SIGN	RIGHT	REGULATORY, ADOPTED BY: CHRIS BLACKSHEEP AND FAMILY
0.038	0.038	SIGN	RIGHT	REGULATORY, CANYON DE CHELLY NATIONAL MONUMENT
0.040	0.043	PAVED DITCH	RIGHT	
0.068	0.068	CULVERT	N/A	
0.101	0.101	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.102	0.102	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.157	0.162	PAVED DITCH	RIGHT	
0.162	0.179	CURB	RIGHT	
0.184	0.184	CULVERT	N/A	
0.220	0.220	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.221	0.223	PAVED DITCH	RIGHT	
0.223	0.313	CURB	RIGHT	
0.241	0.248	PAVED DITCH	LEFT	
0.248	0.309	CURB	LEFT	
0.309	0.316	PAVED DITCH	LEFT	
0.316	0.317	PAVED DITCH	LEFT	
0.326	0.326	INTERSECTION	RIGHT	UNPAVED ROUTE
0.401	0.404	PAVED DITCH	RIGHT	
0.404	0.434	CURB	RIGHT	
0.438	0.441	PAVED DITCH	LEFT	
0.441	0.521	CURB	LEFT	
0.452	0.452	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.460	0.460	INTERSECTION	RIGHT	UNPAVED ROUTE
0.465	0.512	CURB	RIGHT	
0.550	0.550	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.551	0.579	CURB	RIGHT	
0.556	0.581	CURB	LEFT	

ROUTE 0105: MUMMY CAVE OVERLOOK ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.559	0.559	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.579	0.588	PAVED DITCH	RIGHT	
0.582	0.582	INTERSECTION	LEFT	UNPAVED ROUTE
0.588	0.601	PAVED DITCH	LEFT	
0.610	0.613	PAVED DITCH	LEFT	
0.613	0.692	CURB	LEFT	
0.642	0.642	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.653	0.653	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.696	0.696	DROP INLET	LEFT	
0.697	0.704	PAVED DITCH	LEFT	
0.704	0.815	CURB	LEFT	
0.709	0.709	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.733	0.788	CURB	RIGHT	
0.788	0.793	PAVED DITCH	RIGHT	
0.814	0.814	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.815	0.820	PAVED DITCH	LEFT	
0.817	0.817	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.818	0.818	DROP INLET	LEFT	
0.820	0.820	INTERSECTION	RIGHT	UNPAVED ROUTE
0.820	0.865	CURB	LEFT	
0.824	0.867	CURB	RIGHT	
0.865	0.869	PAVED DITCH	LEFT	
0.867	0.881	PAVED DITCH	RIGHT	
0.875	0.875	SIGN	RIGHT	WARNING, PARKING AREA AHEAD
0.882	0.882	CULVERT	N/A	
0.920	0.920	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.933	0.933	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.940	0.940	INTERSECTION	N/A	ROUTE 0911 (MUMMY CAVE OVERLOOK PARKING)
0.940	0.940	ROUTE END	N/A	TO ROUTE 0911 (MUMMY CAVE OVERLOOK PARKING)

ROUTE 0106: ANTELOPE HOUSE OVERLOOK ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM INDIAN ROUTE 64 (NORTH RIM DRIVE)
0.000	0.000	INTERSECTION	LEFT	PAVED ROUTE (INDIAN ROUTE 64 (NORTH RIM DRIVE) (STATE MAINTAINED / NON NPS))
0.000	0.000	INTERSECTION	RIGHT	PAVED ROUTE (INDIAN ROUTE 64 (NORTH RIM DRIVE) (STATE MAINTAINED / NON NPS))
0.004	0.004	SIGN	RIGHT	REGULATORY, STOP
0.006	0.014	PAVED DITCH	RIGHT	
0.014	0.014	CATTLE GUARD	N/A	
0.017	0.042	CURB	RIGHT	
0.027	0.071	CURB	LEFT	
0.042	0.047	PAVED DITCH	RIGHT	
0.046	0.046	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.068	0.068	INTERSECTION	RIGHT	UNPAVED ROUTE
0.071	0.075	PAVED DITCH	LEFT	
0.073	0.073	DROP INLET	LEFT	
0.082	0.082	INTERSECTION	RIGHT	UNPAVED ROUTE
0.087	0.087	INTERSECTION	LEFT	UNPAVED ROUTE
0.091	0.091	SIGN	RIGHT	REGULATORY, CANYON DE CHELLY NATIONAL MONUMENT
0.091	0.163	CURB	RIGHT	
0.091	0.091	SIGN	RIGHT	REGULATORY, ADOPTED BY: CHINLE H S JROTC DEPT WILDCAT BATTALION
0.110	0.110	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.136	0.164	PAVED DITCH	LEFT	
0.163	0.169	PAVED DITCH	RIGHT	
0.214	0.214	INTERSECTION	RIGHT	UNPAVED ROUTE
0.219	0.219	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.270	0.270	CULVERT	N/A	
0.285	0.294	PAVED DITCH	LEFT	
0.294	0.344	CURB	LEFT	
0.369	0.377	PAVED DITCH	RIGHT	
0.377	0.412	CURB	RIGHT	
0.389	0.395	PAVED DITCH	LEFT	
0.395	0.440	CURB	LEFT	
0.402	0.402	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.416	0.416	INTERSECTION	RIGHT	UNPAVED ROUTE

ROUTE 0106: ANTELOPE HOUSE OVERLOOK ROAD

0.421 0.433	FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.529 0.529 INTERSECTION LEFT UNPAVED ROUTE 0.567 0.567 DROP INLET RIGHT 0.558 0.597 PAVED DITCH RIGHT 0.577 0.643 CUBB RIGHT 0.674 0.681 PAVED DITCH LEFT 0.681 0.760 CURB LEFT 0.778 0.778 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 0.508 0.808 CULVERT N/A 0.885 0.885 INTERSECTION LEFT UNPAVED ROUTE 0.897 0.897 INTERSECTION RIGHT UNPAVED ROUTE 0.903 0.944 CURB RIGHT O.944 0.950 PAVED DITCH RIGHT 1.026 1.026 CULVERT N/A N/A NORTH PARK BOUNDARY 1.058 1.058 SIGN RIGHT GUIDE, ENTERING CANYON DE CHELLY NATIONAL 1.091 1.091 INTERSECTION LEFT UNPAVED ROUTE SPUR 1.117 1.117	0.421				
0.567 0.567 DROP INLET RIGHT 0.568 0.597 PAVED DITCH RIGHT 0.597 0.643 CURB RIGHT 0.674 0.681 PAVED DITCH LEFT 0.678 0.760 CURB LEFT 0.778 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 0.808 0.808 CULVERT N/A 0.885 0.885 INTERSECTION LEFT UNPAVED ROUTE 0.897 INTERSECTION RIGHT UNPAVED ROUTE 0.903 0.944 CURB RIGHT UNPAVED ROUTE 0.944 0.950 PAVED DITCH RIGHT RIGHT 1.026 1.026 CULVERT N/A NORTH PARK BOUNDARY 1.058 1.058 SIGN RIGHT GUIDE, ENTERING CANYON DE CHELLY NATIONAL 1.091 1.091 INTERSECTION LEFT UNPAVED ROUTE SPUR 1.117 Intersection Left UNPAVED ROUTE 1.123 1.173 PAVED DITCH </td <td>0.507</td> <td>0.507</td> <td>INTERSECTION</td> <td>RIGHT</td> <td>UNPAVED ROUTE</td>	0.507	0.507	INTERSECTION	RIGHT	UNPAVED ROUTE
0.568 0.597 PAVED DITCH RIGHT 0.597 0.643 CURB RIGHT 0.674 0.681 PAVED DITCH LEFT 0.681 0.760 CURB LEFT 0.778 0.778 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 0.808 0.808 CULVERT N/A 0.885 0.885 INTERSECTION LEFT UNPAVED ROUTE 0.897 0.897 INTERSECTION RIGHT UNPAVED ROUTE 0.903 0.944 CURB RIGHT RIGHT 1.026 L.026 CULVERT N/A 1.058 1.058 PARK BOUNDARY N/A NORTH PARK BOUNDARY 1.058 1.058 SIGN RIGHT GUIDE, ENTERING CANYON DE CHELLY NATIONAL MONUMENT 1.091 1.091 INTERSECTION LEFT UNPAVED ROUTE 1.117 INTERSECTION LEFT UNPAVED ROUTE 1.120 1.180 CULVERT N/A 1.224 PAVED DITCH	0.529	0.529	INTERSECTION	LEFT	UNPAVED ROUTE
0.597 0.643 CURB RIGHT 0.674 0.681 PAVED DITCH LEFT 0.681 0.760 CURB LEFT 0.778 0.778 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 0.808 0.808 CULVERT N/A 0.885 0.885 INTERSECTION LIFT UNPAVED ROUTE 0.907 0.897 INTERSECTION RIGHT UNPAVED ROUTE 0.903 0.944 CURB RIGHT O.950 PAVED DITCH RIGHT 1.026 1.026 CULVERT N/A NORTH PARK BOUNDARY N/A NORTH PARK BOUNDARY 1.058 1.058 SIGN RIGHT GUIDE, ENTERING CANYON DE CHELLY NATIONAL MONUMENT 1.091 1.091 INTERSECTION LEFT UNPAVED ROUTE SPUR 1.117 1.117 INTERSECTION LEFT UNPAVED ROUTE 1.120 1.180 CULVERT N/A 1.221 1.223 PAVED DITCH LEFT 1.224 PA	0.567	0.567	DROP INLET	RIGHT	
0.674 0.681 PAVED DITCH LEFT 0.681 0.760 CURB LEFT 0.778 0.778 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 0.808 0.808 CULVERT N/A 0.885 0.885 INTERSECTION LEFT UNPAVED ROUTE 0.897 0.897 INTERSECTION RIGHT UNPAVED ROUTE 0.903 0.944 CURB RIGHT OVERTHER RIGHT 1.026 1.026 CULVERT N/A NORTH PARK BOUNDARY 1.058 1.058 PARK BOUNDARY N/A NORTH PARK BOUNDARY 1.058 1.058 SIGN RIGHT GUIDE, ENTERING CANYON DE CHELLY NATIONAL 1.001 1.091 INTERSECTION LEFT UNPAVED ROUTE SPUR 1.117 1.117 INTERSECTION LEFT UNPAVED ROUTE 1.123 1.130 PAVED DITCH LEFT 1.124 1.224 PAVED DITCH RIGHT 1.224 1.224 PAVED DITCH RIGHT	0.568	0.597	PAVED DITCH	RIGHT	
0.681 0.760 CURB LEFT 0.778 0.778 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 0.808 0.808 CULVERT N/A 0.885 0.885 INTERSECTION LEFT UNPAVED ROUTE 0.897 0.897 INTERSECTION RIGHT UNPAVED ROUTE 0.903 0.944 CURB RIGHT OVERTHER RIGHT 1.026 1.026 CULVERT N/A NORTH PARK BOUNDARY 1.058 1.058 PARK BOUNDARY N/A NORTH PARK BOUNDARY 1.058 1.058 SIGN RIGHT GUIDE, ENTERING CANYON DE CHELLY NATIONAL 1.091 1.091 INTERSECTION LEFT UNPAVED ROUTE SPUR 1.117 1.117 INTERSECTION LEFT UNPAVED ROUTE 1.180 1.180 CULVERT N/A 1.221 1.230 PAVED DITCH LEFT 1.224 PAVED DITCH LEFT 1.225 1.225 SIGN RIGHT 1.23	0.597	0.643	CURB	RIGHT	
0.778 0.778 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 0.808 0.808 CULVERT N/A 0.885 0.885 INTERSECTION LEFT UNPAVED ROUTE 0.897 INTERSECTION RIGHT UNPAVED ROUTE 0.903 0.944 CURB RIGHT 1.026 1.026 CULVERT N/A 1.058 1.058 PARK BOUNDARY N/A 1.058 1.058 SIGN RIGHT GUIDE, ENTERING CANYON DE CHELLY NATIONAL MONUMENT 1.091 1.091 INTERSECTION LEFT UNPAVED ROUTE SPUR 1.117 1.117 INTERSECTION LEFT UNPAVED ROUTE 1.123 1.173 PAVED DITCH LEFT 1.180 1.180 CULVERT N/A 1.216 1.224 PAVED DITCH RIGHT 1.225 1.225 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 1.230 1.302 CURB LEFT 1.274 1.277 PAVED	0.674	0.681	PAVED DITCH	LEFT	
0.808 0.808 CULVERT N/A 0.885 0.885 INTERSECTION LEFT UNPAVED ROUTE 0.897 0.897 INTERSECTION RIGHT UNPAVED ROUTE 0.903 0.944 CURB RIGHT 0.944 0.950 PAVED DITCH RIGHT 1.026 1.026 CULVERT N/A 1.058 1.058 PARK BOUNDARY N/A 1.058 1.058 PARK BOUNDARY N/A 1.058 1.058 SIGN RIGHT GUIDE, ENTERING CANYON DE CHELLY NATIONAL MONUMENT 1.091 1.091 INTERSECTION LEFT UNPAVED ROUTE SPUR 1.117 INTERSECTION LEFT UNPAVED ROUTE 1.123 1.173 PAVED DITCH LEFT 1.180 1.180 CULVERT N/A 1.216 1.224 PAVED DITCH RIGHT 1.225 1.225 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 1.229 1.289 INTERSECTION RIGHT <td>0.681</td> <td>0.760</td> <td>CURB</td> <td>LEFT</td> <td></td>	0.681	0.760	CURB	LEFT	
0.885 0.885 INTERSECTION LEFT UNPAVED ROUTE 0.897 0.897 INTERSECTION RIGHT UNPAVED ROUTE 0.903 0.944 CURB RIGHT UNPAVED ROUTE 0.944 0.950 PAVED DITCH RIGHT 1.026 1.026 CULVERT N/A 1.058 1.058 PARK BOUNDARY N/A 1.058 1.058 PARK BOUNDARY N/A 1.058 1.058 SIGN RIGHT GUIDE, ENTERING CANYON DE CHELLY NATIONAL MONUMENT 1.091 1.091 INTERSECTION LEFT UNPAVED ROUTE SPUR 1.117 INTERSECTION LEFT UNPAVED ROUTE 1.123 1.173 PAVED DITCH LEFT 1.180 1.180 CULVERT N/A 1.221 1.230 PAVED DITCH LEFT 1.224 1.274 CURB RIGHT 1.225 1.225 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 1.289 1.289 INTERSECTI	0.778	0.778	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.897 0.897 INTERSECTION RIGHT UNPAVED ROUTE 0.903 0.944 CURB RIGHT 0.944 0.950 PAVED DITCH RIGHT 1.026 1.026 CULVERT N/A 1.058 1.058 PARK BOUNDARY N/A 1.058 1.058 SIGN RIGHT GUIDE, ENTERING CANYON DE CHELLY NATIONAL MONUMENT 1.091 1.091 INTERSECTION LEFT UNPAVED ROUTE SPUR 1.117 1.117 INTERSECTION LEFT UNPAVED ROUTE 1.123 1.173 PAVED DITCH LEFT 1.180 1.180 CULVERT N/A 1.216 1.224 PAVED DITCH RIGHT 1.224 1.230 PAVED DITCH LEFT 1.224 1.274 CURB RIGHT 1.225 1.225 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 1.289 1.289 INTERSECTION RIGHT UNPAVED ROUTE 1.302 1.306 PAVED DITCH	0.808	0.808	CULVERT	N/A	
0.903 0.944 CURB RIGHT 0.944 0.950 PAVED DITCH RIGHT 1.026 1.026 CULVERT N/A 1.058 1.058 PARK BOUNDARY N/A NORTH PARK BOUNDARY 1.058 1.058 SIGN RIGHT GUIDE, ENTERING CANYON DE CHELLY NATIONAL MONUMENT 1.091 1.091 INTERSECTION LEFT UNPAVED ROUTE SPUR 1.117 I.1173 INTERSECTION LEFT UNPAVED ROUTE 1.123 1.173 PAVED DITCH LEFT 1.180 1.180 CULVERT N/A 1.216 1.224 PAVED DITCH RIGHT 1.221 1.230 PAVED DITCH LEFT 1.222 1.225 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 1.230 1.302 CURB LEFT 1.289 1.289 INTERSECTION RIGHT 1.289 1.289 INTERSECTION RIGHT 1.302 LARRICAL SIGN, NO TEXT LEFT <	0.885	0.885	INTERSECTION	LEFT	UNPAVED ROUTE
0.944 0.950 PAVED DITCH RIGHT 1.026 1.026 CULVERT N/A 1.058 1.058 PARK BOUNDARY N/A NORTH PARK BOUNDARY 1.058 1.058 SIGN RIGHT GUIDE, ENTERING CANYON DE CHELLY NATIONAL MONUMENT 1.091 1.091 INTERSECTION LEFT UNPAVED ROUTE SPUR 1.117 1.117 INTERSECTION LEFT UNPAVED ROUTE 1.123 1.173 PAVED DITCH LEFT 1.180 1.180 CULVERT N/A 1.216 1.224 PAVED DITCH RIGHT 1.221 1.230 PAVED DITCH LEFT 1.224 1.274 CURB RIGHT 1.225 1.225 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 1.289 1.289 INTERSECTION RIGHT UNPAVED ROUTE 1.302 1.306 PAVED DITCH LEFT 1.312 CULVERT N/A 1.312 CULVERT N/A	0.897	0.897	INTERSECTION	RIGHT	UNPAVED ROUTE
1.026 1.026 CULVERT N/A 1.058 1.058 PARK BOUNDARY N/A NORTH PARK BOUNDARY 1.058 1.058 SIGN RIGHT GUIDE, ENTERING CANYON DE CHELLY NATIONAL MONUMENT 1.091 1.091 INTERSECTION LEFT UNPAVED ROUTE SPUR 1.117 1.117 INTERSECTION LEFT UNPAVED ROUTE 1.123 1.173 PAVED DITCH LEFT 1.180 1.180 CULVERT N/A 1.216 1.224 PAVED DITCH RIGHT 1.221 1.230 PAVED DITCH LEFT 1.224 1.274 CURB RIGHT 1.225 1.225 SIGN RIGHT 1.230 1.302 CURB LEFT 1.274 1.277 PAVED DITCH RIGHT 1.302 1.306 PAVED DITCH LEFT 1.312 CULVERT N/A 1.339 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 1.373 1.389	0.903	0.944	CURB	RIGHT	
1.058 1.058 PARK BOUNDARY N/A NORTH PARK BOUNDARY 1.058 1.058 SIGN RIGHT GUIDE, ENTERING CANYON DE CHELLY NATIONAL MONUMENT 1.091 1.091 INTERSECTION LEFT UNPAVED ROUTE SPUR 1.117 1.117 INTERSECTION LEFT UNPAVED ROUTE 1.123 1.173 PAVED DITCH LEFT 1.180 1.180 CULVERT N/A 1.216 1.224 PAVED DITCH RIGHT 1.221 1.230 PAVED DITCH LEFT 1.224 1.274 CURB RIGHT 1.225 1.225 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 1.274 1.277 PAVED DITCH RIGHT UNPAVED ROUTE 1.302 1.306 PAVED DITCH LEFT 1.312 CULVERT N/A 1.339 1.339 SIGN RIGHT 1.373 1.389 PAVED DITCH RIGHT	0.944	0.950	PAVED DITCH	RIGHT	
1.058	1.026	1.026	CULVERT	N/A	
MONUMENT	1.058	1.058	PARK BOUNDARY	N/A	NORTH PARK BOUNDARY
1.117 1.117 INTERSECTION LEFT UNPAVED ROUTE 1.123 1.173 PAVED DITCH LEFT 1.180 1.180 CULVERT N/A 1.216 1.224 PAVED DITCH RIGHT 1.221 1.230 PAVED DITCH LEFT 1.224 1.274 CURB RIGHT 1.225 1.225 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 1.230 1.302 CURB LEFT 1.274 1.277 PAVED DITCH RIGHT 1.289 1.289 INTERSECTION RIGHT UNPAVED ROUTE 1.302 1.306 PAVED DITCH LEFT 1.312 1.312 CULVERT N/A 1.339 1.339 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 1.373 1.389 PAVED DITCH RIGHT	1.058	1.058	SIGN	RIGHT	
1.123 1.173 PAVED DITCH LEFT 1.180 1.180 CULVERT N/A 1.216 1.224 PAVED DITCH RIGHT 1.221 1.230 PAVED DITCH LEFT 1.224 1.274 CURB RIGHT 1.225 1.225 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 1.230 1.302 CURB LEFT 1.274 1.277 PAVED DITCH RIGHT 1.289 1.289 INTERSECTION RIGHT UNPAVED ROUTE 1.302 1.306 PAVED DITCH LEFT 1.312 CULVERT N/A 1.339 1.339 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 1.373 1.389 PAVED DITCH RIGHT	1.091	1.091	INTERSECTION	LEFT	UNPAVED ROUTE SPUR
1.180 1.180 CULVERT N/A 1.216 1.224 PAVED DITCH RIGHT 1.221 1.230 PAVED DITCH LEFT 1.224 1.274 CURB RIGHT 1.225 1.225 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 1.230 1.302 CURB LEFT 1.274 1.277 PAVED DITCH RIGHT 1.289 1.289 INTERSECTION RIGHT UNPAVED ROUTE 1.302 1.306 PAVED DITCH LEFT 1.312 1.312 CULVERT N/A 1.339 1.339 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 1.373 1.389 PAVED DITCH RIGHT	1.117	1.117	INTERSECTION	LEFT	UNPAVED ROUTE
1.216 1.224 PAVED DITCH RIGHT 1.221 1.230 PAVED DITCH LEFT 1.224 1.274 CURB RIGHT 1.225 1.225 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 1.230 1.302 CURB LEFT 1.274 1.277 PAVED DITCH RIGHT 1.289 1.289 INTERSECTION RIGHT UNPAVED ROUTE 1.302 1.306 PAVED DITCH LEFT 1.312 1.312 CULVERT N/A 1.339 1.339 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 1.373 1.389 PAVED DITCH RIGHT	1.123	1.173	PAVED DITCH	LEFT	
1.221 1.230 PAVED DITCH LEFT 1.224 1.274 CURB RIGHT 1.225 1.225 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 1.230 1.302 CURB LEFT 1.274 1.277 PAVED DITCH RIGHT 1.289 1.289 INTERSECTION RIGHT UNPAVED ROUTE 1.302 1.306 PAVED DITCH LEFT 1.312 1.312 CULVERT N/A 1.339 1.339 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 1.373 1.389 PAVED DITCH RIGHT	1.180	1.180	CULVERT	N/A	
1.224 1.274 CURB RIGHT 1.225 1.225 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 1.230 1.302 CURB LEFT 1.274 1.277 PAVED DITCH RIGHT 1.289 1.289 INTERSECTION RIGHT UNPAVED ROUTE 1.302 1.306 PAVED DITCH LEFT 1.312 1.312 CULVERT N/A 1.339 1.339 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 1.373 1.389 PAVED DITCH RIGHT	1.216	1.224	PAVED DITCH	RIGHT	
1.225 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 1.230 1.302 CURB LEFT 1.274 1.277 PAVED DITCH RIGHT 1.289 1.289 INTERSECTION RIGHT UNPAVED ROUTE 1.302 1.306 PAVED DITCH LEFT 1.312 1.312 CULVERT N/A 1.339 1.339 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 1.373 1.389 PAVED DITCH RIGHT	1.221	1.230	PAVED DITCH	LEFT	
1.230 1.302 CURB LEFT 1.274 1.277 PAVED DITCH RIGHT 1.289 1.289 INTERSECTION RIGHT UNPAVED ROUTE 1.302 1.306 PAVED DITCH LEFT 1.312 1.312 CULVERT N/A 1.339 1.339 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 1.373 1.389 PAVED DITCH RIGHT	1.224	1.274	CURB	RIGHT	
1.274 1.277 PAVED DITCH RIGHT 1.289 1.289 INTERSECTION RIGHT UNPAVED ROUTE 1.302 1.306 PAVED DITCH LEFT 1.312 1.312 CULVERT N/A 1.339 1.339 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 1.373 1.389 PAVED DITCH RIGHT	1.225	1.225	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.289 1.289 INTERSECTION RIGHT UNPAVED ROUTE 1.302 1.306 PAVED DITCH LEFT 1.312 1.312 CULVERT N/A 1.339 1.339 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 1.373 1.389 PAVED DITCH RIGHT	1.230	1.302	CURB	LEFT	
1.302 1.306 PAVED DITCH LEFT 1.312 1.312 CULVERT N/A 1.339 1.339 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 1.373 1.389 PAVED DITCH RIGHT	1.274	1.277	PAVED DITCH	RIGHT	
1.312 1.312 CULVERT N/A 1.339 1.339 SIGN RIGHT WARNING, GRAPHIC SIGN, NO TEXT 1.373 1.389 PAVED DITCH RIGHT	1.289	1.289	INTERSECTION	RIGHT	UNPAVED ROUTE
1.3391.339SIGNRIGHTWARNING, GRAPHIC SIGN, NO TEXT1.3731.389PAVED DITCHRIGHT	1.302	1.306	PAVED DITCH	LEFT	
1.373 1.389 PAVED DITCH RIGHT	1.312	1.312	CULVERT	N/A	
	1.339	1.339	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.381 1.385 PAVED DITCH LEFT	1.373	1.389	PAVED DITCH	RIGHT	
	1.381	1.385	PAVED DITCH	LEFT	

ROUTE 0106: ANTELOPE HOUSE OVERLOOK ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
1.382	1.382	CULVERT	N/A	
1.385	1.449	CURB	LEFT	
1.389	1.446	CURB	RIGHT	
1.405	1.405	INTERSECTION	LEFT	UNPAVED ROUTE
1.446	1.451	PAVED DITCH	RIGHT	
1.449	1.457	PAVED DITCH	LEFT	
1.482	1.482	INTERSECTION	LEFT	UNPAVED ROUTE
1.486	1.538	CURB	RIGHT	
1.521	1.521	INTERSECTION	LEFT	UNPAVED ROUTE
1.538	1.572	PAVED DITCH	RIGHT	
1.616	1.616	CULVERT	N/A	
1.624	1.670	CURB	LEFT	
1.638	1.638	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.670	1.676	PAVED DITCH	LEFT	
1.750	1.804	CURB	RIGHT	
1.804	1.828	PAVED DITCH	RIGHT	
1.828	1.904	CURB	RIGHT	
1.904	1.920	PAVED DITCH	RIGHT	
1.960	1.960	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
1.961	1.961	SIGN	RIGHT	REGULATORY, PARKING AREA AHEAD
1.994	1.994	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
2.008	2.008	INTERSECTION	RIGHT	UNPAVED ROUTE
2.030	2.030	INTERSECTION	N/A	ROUTE 0916 (ANTELOPE HOUSE OVERLOOK PARKING)
2.030	2.030	ROUTE END	N/A	TO ROUTE 0916 (ANTELOPE HOUSE OVERLOOK PARKING)

ROUTE 0107: LEDGE RUIN ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM INDIAN ROUTE 64 (NORTH RIM DRIVE)
0.000	0.000	SIGN	RIGHT	REGULATORY, STOP
0.000	0.000	INTERSECTION	LEFT	PAVED ROUTE (INDIAN ROUTE 64 (NORTH RIM DRIVE) (STATE MAINTAINED / NON NPS))
0.000	0.000	INTERSECTION	RIGHT	PAVED ROUTE (INDIAN ROUTE 64 (NORTH RIM DRIVE) (STATE MAINTAINED / NON NPS))
0.006	0.006	CULVERT	N/A	
0.013	0.013	CATTLE GUARD	N/A	
0.017	0.017	GATE	N/A	
0.017	0.017	SIGN	N/A	REGULATORY, GRAPHIC SIGN, NO TEXT
0.017	0.017	SIGN	N/A	REGULATORY, ROAD CLOSED
0.018	0.018	SIGN	N/A	REGULATORY, GRAPHIC SIGN, NO TEXT
0.037	0.037	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.068	0.068	CULVERT	N/A	
0.143	0.143	SIGN	RIGHT	WARNING, STOP AHEAD
0.160	0.160	CULVERT	N/A	
0.203	0.289	CURB	LEFT	
0.212	0.282	CURB	RIGHT	
0.281	0.281	INTERSECTION	RIGHT	UNPAVED ROUTE
0.282	0.299	PAVED DITCH	RIGHT	
0.299	0.300	PAVED DITCH	RIGHT	
0.306	0.306	INTERSECTION	LEFT	UNPAVED ROUTE
0.328	0.357	PAVED DITCH	LEFT	
0.332	0.332	INTERSECTION	RIGHT	UNPAVED ROUTE
0.357	0.360	PAVED DITCH	LEFT	
0.380	0.419	CURB	LEFT	
0.419	0.423	PAVED DITCH	LEFT	
0.423	0.426	PAVED DITCH	LEFT	
0.483	0.564	CURB	LEFT	
0.513	0.513	INTERSECTION	RIGHT	UNPAVED ROUTE
0.566	0.566	DROP INLET	LEFT	
0.567	0.639	CURB	LEFT	
0.568	0.568	INTERSECTION	LEFT	UNPAVED ROUTE
0.599	0.599	SIGN	RIGHT	REGULATORY, PARKING

ROUTE 0107: LEDGE RUIN ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.641	0.641	DROP INLET	LEFT	
0.645	0.700	CURB	LEFT	
0.700	0.707	PAVED DITCH	LEFT	
0.707	0.711	PAVED DITCH	LEFT	
0.717	0.717	SIGN	RIGHT	REGULATORY, SPEED LIMIT 25
0.754	0.754	CULVERT	N/A	
0.757	0.760	CURB-AND-GUTTER	RIGHT	
0.760	0.760	INTERSECTION	N/A	ROUTE 0912 (LEDGE RUIN PARKING)
0.760	0.760	ROUTE END	N/A	TO ROUTE 0912 (LEDGE RUIN PARKING)

ROUTE 0200: CAMPGROUND/MAINTENANCE ACCESS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0100 (LODGE CAMPGROUND ACCESS ROAD) AT MP 0.30 (ON RIGHT)
0.000	0.000	INTERSECTION	LEFT	ROUTE 0100 (LODGE CAMPGROUND ACCESS ROAD)
0.000	0.000	INTERSECTION	RIGHT	ROUTE 0100 (LODGE CAMPGROUND ACCESS ROAD)
0.000	0.000	SIGN	N/A	GUIDE, SOUTH RIM DRIVE VISITOR CENTER THUNDERBIRD LODGE
0.004	0.004	SIGN	RIGHT	REGULATORY, STOP
0.032	0.032	SIGN	RIGHT	GUIDE, PICNIC AREA 8:00 AM 8:00 PM NO CAMPING OR OVERNIGHT PARKING
0.034	0.034	INTERSECTION	RIGHT	ROUTE 0904 (COTTONWOOD PICNIC AREA PARKING)
0.043	0.043	SIGN	RIGHT	REGULATORY, SPEED LIMIT 15
0.047	0.047	SIGN	RIGHT	REGULATORY, NO PARKING ANY TIME
0.054	0.054	SIGN	LEFT	REGULATORY, NO PARKING ANY TIME
0.054	0.054	INTERSECTION	RIGHT	ROUTE 0904 (COTTONWOOD PICNIC AREA PARKING)
0.067	0.067	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.078	0.078	SIGN	RIGHT	REGULATORY, THUNDERBIRD LODGE
0.083	0.083	INTERSECTION	RIGHT	ROUTE 0201 (COTTONWOOD CAMPGROUND LOOP)
0.088	0.088	SIGN	RIGHT	WARNING, GRAPHIC SIGN, NO TEXT
0.096	0.096	SIGN	RIGHT	REGULATORY, YIELD
0.100	0.100	INTERSECTION	N/A	ROUTE 0400 (PARK MAINTENANCE ACCESS ROAD)
0.100	0.100	ROUTE END	N/A	TO ROUTE 0201 (COTTONWOOD CAMPGROUND LOOP) ON RIGHT AND ROUTE 0400
0.100	0.100	ROUTE END	11/13	`

ROUTE 0400: PARK MAINTENANCE ACCESS ROAD

FROM	TO			
MILEPOST	MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000	ROUTE BEGIN	N/A	FROM ROUTE 0200 (CAMPGROUND/MAINTENANCE ACCESS ROAD) AT END
0.000	0.000	INTERSECTION	N/A	ROUTE 0200 (CAMPGROUND/MAINTENANCE ACCESS ROAD)
0.005	0.005	INTERSECTION	LEFT	PAVED ROUTE (THUNDERBIRD HOTEL / NON NPS)
0.009	0.009	SIGN	LEFT	REGULATORY, STOP DO NOT ENTER
0.009	0.009	SIGN	LEFT	REGULATORY, PRIVATE DRIVEWAY NO TURN AROUND
0.081	0.081	CULVERT	N/A	
0.082	0.082	CULVERT	N/A	
0.099	0.099	INTERSECTION	LEFT	PAVED ROUTE (THUNDERBIRD HOTEL / NON NPS)
0.105	0.105	INTERSECTION	RIGHT	UNPAVED ROUTE
0.110	0.110	SIGN	LEFT	GUIDE, NO PRIVATE VEHICLE BEYOND THIS POINT
0.111	0.111	GATE	N/A	
0.120	0.120	FIRE HYDRANT	LEFT	
0.120	0.120	INTERSECTION	N/A	ROUTE 0913 (MAINTENANCE AREA PARKING)
0.120	0.120	ROUTE END	N/A	TO ROUTE 0913 (MAINTENANCE AREA PARKING)

Canyon de Chelly National Monument



Section 10 Appendix

APPENDIX A: GLOSSARY OF TERMS AND ABBREVIATIONS

TERM OR

ABBREVIATION DESCRIPTION OR DEFINITION

AADT (Annual Average Daily Traffic) The estimate of typical daily traffic

on a road segment for all days of the week over the period of one

year.

CRS Condition Rating Sheets. (Section 5)

Excellent rating with an index value of 95 or greater

Fair Fair rating with an index value from 61 to 84

Func. Class Funtional Classification (see Route ID, Section 4)

Good Good rating with an index value from 85 to 94

IRI International Roughness Index

Lane Width Width from road centerline to fogline, or from centerline to edge-of-

pavement when no fogline exists

MRR Manually Rated Route

N/A Not Applicable

NC Not Collected

Paved Width Width from edge-of-pavement to edge-of-pavement

PCR Pavement Condition Rating (Appendix B, Section 10)

Poor Poor Rating with an index value of 60 or less

RCI Roughness Condition Index

SADT (Seasonal Annual Daily Traffic) The AADT adjusted to represent

just the period of the year containing 80 percent of the total annual

traffic.

SCR Surface Condition Rating (Appendix B, Section 10)

Shoulder Width Distance from fogline to hinge point, or if no fogline, from edge-of-

pavement to hinge point.

APPENDIX B: DESCRIPTION OF RATING SYSTEM

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

Data is collected on the following distresses and conditions:

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

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

Calculation of Index Values

Note: Index values < 0 default to 0. Index values > 100 default to 100.

For all indices, a higher value indicates a better road condition, and a lower value indicates a poorer road condition.

All severity protocols are taken from the SHRP Distress Identification Manual.

Condition Ranges for all Indices

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

Alligator Crack Index

```
AC_{INDEX} = 100 - 40 * [(\%LOW / 70) + (\%MED / 30) + (\%HI / 10)]
```

Where:

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

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

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

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

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

The threshold for failure for this index is $AC_{INDEX} = 60$.

Severity Levels:

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

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

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

Longitudinal Crack Index

```
LC_{INDEX} = 100 - 40 * [(\%LOW / 350) + (\%MED / 200) + (\%HI / 75)]
```

Where:

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

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

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

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

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

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

Severity Levels:

Low severity longitudinal cracks have a mean width $\leq \frac{1}{4}$ ", or are sealed cracks of indeterminate width whose sealant material is in good condition.

Medium severity longitudinal cracks have a mean width $> \frac{1}{4}$ " and $\le \frac{3}{4}$ ".

High severity longitudinal cracks have a mean width $> \frac{3}{4}$ ".

Transverse Crack Index

```
TC_{INDEX} = 100 - \{ [20 * ((LOW / 15.1) + (MED / 7.5))] + [40 * (HI / 1.9)] \}
```

Where:

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

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

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

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

Severity Levels:

Low severity transverse cracks have a mean width $\leq \frac{1}{4}$ ", or are sealed cracks of indeterminate width whose sealant material is in good condition.

Medium severity transverse cracks have a mean width $> \frac{1}{4}$ " and $\leq \frac{3}{4}$ ".

High severity transverse cracks have a mean width $> \frac{3}{4}$ ".

Patching Index

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

Where:

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

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

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

The threshold for failure for this index is PATCH INDEX = 60.

There are no severity levels for patching.

Rutting Index

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

Where:

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

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

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

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

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

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

Severity Levels:

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

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

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

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

Roughness Condition Index

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

Where:

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

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

There is no applicable threshold for failure for this index.

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

Surface Condition Rating Index

```
\mathbf{SCR} = 100 - [(100 - AC\_INDEX) + (100 - LC\_INDEX) + (100 - TC\_INDEX) + (100 - PATCH\_INDEX) + (100 - RUT\_INDEX)]
```

Where:

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

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

Pavement Condition Rating Index Asphaltic Concrete Pavement (AS)

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

Where:

See above for determinations of SCR and RCI.

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

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

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

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

Pavement Condition Rating Index Portland Cement Concrete Pavement (CO)

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

Where:

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

Parking Lot and Manually Rated Road Condition Rating

Surface Condition Distresses- Chip Seal:

Raveling – loss of surface rock chips revealing previous surface

Bleeding – asphalt or tar is bleeding through to the surface where surface looks slick with asphalt

Rutting

Potholes/Patching

Ratings - Chip Seal:

Excellent – None of the surface affected by the above (recently constructed)

Good – Less than 10% of surface affected by the above

Fair – Between 10% and 40% of surface affected by the above

Poor – More than 40% of surface affected by the above

Surface Condition - Asphalt:

Cracking of any type

Rutting

Potholes/Patching

Ratings - Asphalt:

Excellent – None of the surface affected by the above (recently constructed)

Good – Less than 10% of surface affected by the above

Fair – Between 10% and 40% of surface affected by the above

Poor – More than 40% of surface affected by the above

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

Under Construction 100

Excellent 97

Good 90

Fair 73

Poor 45

APPENDIX C: GENERAL INFORMATION ON RIP SYSTEMS

DMI (Distance Measuring Instrument)

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

Digital Image Information

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

Right-of-way (ROW) Video

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

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

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

The ARAN has a lever arm setting which tells the POS system where the center of the rutbar is with respect to the GPS antennas.

Pavement Video

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

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

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

FHWA ARAN GPS & Inertial System

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

GPS Collected on Manually Rated Routes

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

GPS SHAPEFILES

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

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

Condition Photos Taken of Manually Rated Roads

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

Scenic Photos

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

APPENDIX D: METADATA

FHWA – NPS Road Inventory Program Cycle 4 Metadata

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

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

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

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

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

Specific Caveats

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

- Roadway Data is collected in intervals of 0.010 miles (52.8feet) constituting a "station".
- Most roadway features are collected relative to the primary direction lane of a roadway, using the primary
 direction video and mileage. Signs and Mile Markers are the only features collected using the oppositedirection video with mileage location referenced to the primary direction lane of the roadway.
- Route_GPS table contains GPS positional information collected by the ARAN and post processed with Applanix POSPac Land 5.0 post-processing software. No manual adjustments have occurred on this table.
- Modifications to the Park ROAD 04.dbf/.shp/.shx files may have been necessary for report esthetics.
- Modifications to the Park_PKG_04. dbf/.shp/.shx files may have been necessary for report esthetics.
- Cycle 4 utilizes the Microsoft Office 2003 suite of products and Crystal Reports XI for document and data file generation and reporting.
- All PDF files are in Adobe Acrobat 7.0 Professional format.
- All ArcGIS files are created using ESRI Version 9.x software.
- Thumbnail images are created at 1/10 original image size for Right-of-Way and Pavement Images.
- FHWA is investigating the rutting methodology and calculated values it currently reports. Equipment limitations and analysis methods may be over reporting, low severity rutting.

Key to Notes in Tables

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

Access Database Metadata

MASTER Table Metadata:

						EXPECTED
	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	ACCURACY
						100% Referenced to
1	RIP_CYCLE	XX	4, for data collection cycle 4	Route ID Meeting	FHWA Determination	other tables
	GT 4 TT	****				100%, Referenced to
2	STATE	XX	State where route is located	Route ID Meeting	Park Input / FHWA Determination	other tables (1)
	DADIZ ALDIJA	WWW	Ded of the colo	Desta ID Markins	NIDC D. C	100%, Referenced to
3	PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	other tables 100%, Referenced to
4	PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	other tables
4	FARK_NO	ΛΛΛΛ	Fark numeric code	Route ID Weeting	NFS References	100%, Referenced to
5	RTE_NO	9999XXX	Route number	Route ID Meeting	Park Input / FHWA Classification	other tables
	KIL_IVO))))/AAA	Route number	Route 1D Weeting	Tark input / TTWA Classification	100%, Referenced to
						other tables. 100
6	RTE_NAME	(Text)	Route name	Route ID Meeting	Park Input	characters fit in field
		(- 1)				100%, Referenced to
7	FUNCT_CLASS	X	Route functional classification	Route ID Meeting	Park Input / FHWA Classification	other tables
			Survey lane: PRI (primary) or			
8	DIRECTION	XXX	OPP (opposite)	Route ID Meeting	Park Input / FHWA Determination	100%,
						Estimated before data
9	BEG_MP_EST	999.999 (miles)	Estimated starting MP	Route ID Meeting	Park Input / FHWA Determination	collected
						Estimated before data
10	END_MP_EST	999.999 (miles)	Estimated ending MP	Route ID Meeting	Park Input / FHWA Determination	collected
11	RTE_LENGTH	999.999 (miles)	Collected route length	ARAN Data Collection	Automatic Output	100%
						100% Referenced to
12	FROM_DESC	(Text)	Beginning terminus of route	Route ID Meeting	Park Input / FHWA Determination	other tables
1.0	TO DEGG	(T)		B I B W	D 1 I . (FINIA D	100% Referenced to
13	TO_DESC	(Text)	Ending terminus of route	Route ID Meeting	Park Input / FHWA Determination	other tables
14	NO_LANES	X	Number of lanes in route	ARAN Data Collection	Survey Crew Input	Untested. (1)
1.5	CLIDE TYPE	3737		ADAND (CIL)		100%, Referenced to
15	SURF_TYPE	XX	Surface type of route	ARAN Data Collection	Survey Crew Input	other tables (1)
			Compass direction of route's			
16	COMP DIR	XX	primary lane (nearest cardinal direction)	Route ID Meeting	Park Input / FHWA Determination	Untested
17	COMP_DIR COMMENTS	(Text)	Special information, if any	Contractor Post-processing	Contractor Input	Untested
18	FILENAME	` ′	Filename of raw data files	ARAN Data Collection		100%
18	FILENAME	(Text)	rhename of raw data mes		Automatic Output Survey Crew Input/Automatic	100%
19	SECTION	(Text)	Route section ID	Route ID Meeting/ARAN Data Collection	Output Output	100%
19	SECTION	(Text)	Route section ID	Data Collection	Output	10070

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

PMS_FEATURE Table Metadata:

				g 0.1.1.0.7.		EXPECTED
	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	ACCURACY
1	DID CYCLE	3737	4.6.1.11.11.11.11.11	D (IDM)	EINMA D	100% Referenced to
1	RIP_CYCLE	XX	4, for data collection cycle 4	Route ID Meeting	FHWA Determination	other tables
	CT A TE	WW	State of home words in least of	Daniel ID Markins	Park Input / FHWA	H-4-4-1(1)
2	STATE	XX	State where route is located	Route ID Meeting	Determination	Untested (1) 100% Referenced to
3	DADV ALDUA	XXXX	Dorle alpha anda	Route ID Meeting	NPS References	other tables
3	PARK_ALPHA	ΛΛΛΛ	Park alpha code	Route ID Meeting	NPS References	100% Referenced to
4	PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	other tables
4	FARK_NO	ΛΛΛΛ	Fark numeric code	Route ID Meeting	Park Input / FHWA	100% Referenced to
5	RTE_NO	9999XXX	Route number	Route ID Meeting	Classification	other tables
5	KIE_NO	JJJJAAA	Facility Management	Route ID Meeting	Classification	other tables
			Software System Equipment			
6	FMSS_EQUIP	XXXXXXX	number	NPS FMSS application	NPS References	Untested
	TMSS_EQUI		number	THE THISE application	Park Input / FHWA	100% Referenced to
7	FUNCT_CLASS	X	Route functional class	Route ID Meeting	Classification	other tables
			Survey lane: PRI (primary)		Park Input / FHWA	
8	DIRECTION	XXX	or OPP (opposite)	Route ID Meeting	Determination	100%
				ARAN Data		
				Collection/Contractor Post-		
9	MP	999.999 (miles)	Feature location along route	processing	Video Analysis	<=0.001 mile
			Feature Beginning location			
10	BEG_MP	999.999 (miles)	along route	Contractor Post-processing	Video Analysis	<=0.001 mile
			Feature Ending location			
11	END_MP	999.999 (miles)	along route	Contractor Post-processing	Video Analysis	<=0.001 mile
12	FEATURE_LENGTH	999.99 (Feet)	Linear Feature Length	Contractor Post-processing	Database Processing	100%
13	EVENT	XXXX	Event category of feature	Contractor Post-processing	Video Analysis	Untested
			Event sub-category of			
14	EVENT_CODE	XXXX	feature	Contractor Post-processing	Video Analysis	Untested
			Feature designation:			
15	FEATURE_TYPE	(Text)	LINEAR or POINT	Contractor Post-processing	Video Analysis	Untested
1	ELIENTE DEGG		Description of		X7' 1	T
16	EVENT_DESC	(Text)	feature/contents of sign	Contractor Post-processing	Video Analysis	Untested
17	MUTCD	(Text)	MUTCD Code of Sign	Contractor Post-processing	Database Processing	95%
1.0	COMPANION	(OT / A 9)	Sign condition. N/A. Not to		X7'1 4 1 '	Values inaccurate,
18	CONDITION	"N/A"	be populated	Contractor Post-processing	Video Analysis	defaulted to "N/A"
19	COMMENT	(T4)	Sign label, intersecting	Contractor Doct	Dotoboso Ducassina	Untested
19	COMMENT	(Text)	route, etc. Offset from Road Edge.	Contractor Post-processing	Database Processing	Values inaccurate,
20	OFFSET	"N/A"	N/A. Not to be populated	Contractor Post-processing	Database Processing	defaulted to "N/A"
20	OLLSEI	1 V /A	IN/A. Not to be populated	Contractor Fost-processing	Database Flocessing	uciaulieu to IN/A

						EXPECTED
	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	ACCURACY
21	GIDE.		Side of route relative to lane		X7' 1 A 1 '	050/
21	SIDE	(Text)	driven FHWA bridge structure	Contractor Post-processing	Video Analysis	95%
22	STR_NUMBER	(Text)	number	FHWA Post-processing	Database Processing	Untested
23	BARR_MAT	(Text)	Barrier Material Type	Contractor Post-processing	Video Analysis	Untested
24	BARR_TYPE	(Text)		Contractor Post-processing	Video Analysis Video Analysis	Untested
25	BARR_POST_MAT	(Text)	Barrier Type Barrier Post Materials	Contractor Post-processing Contractor Post-processing	Video Analysis Video Analysis	Untested
26		` '	-	i	-	
—	BARR_BEG_TERM	(Text)	Barrier Approach Treatment	Contractor Post-processing	Video Analysis	Untested
27	BARR_END_TERM	(Text)	Barrier End Treatment	Contractor Post-processing	Video Analysis	Untested
28	CURB_MAT	(Text)	Curb Material Type	Contractor Post-processing	Video Analysis	Untested
29	PAVED_DITCH_MAT	(Text)	Paved Ditch Material Type	Contractor Post-processing	Video Analysis	Untested (2)
30	GATE_MAT	(Text)	Gate Material Type	Contractor Post-processing	Video Analysis	Untested
31	GATE_STYLE	(Text)	Gate Style	Contractor Post-processing	Video Analysis	Untested
22		000 00000	GPS Latitude Co-ordinate			0.00.0
32	BEG_GPS_LAT	999.999999	(decimal degrees)	Contractor Post-processing	Video Analysis	<= 3.00 feet
33	BEG_GPS_LON	-999.999999	GPS Longitude Co-ordinate	Contractor Post-processing	Video Analysis	<= 3.00 feet
34	BEG_GPS_ELEV	9999999	(-decimal degrees) GPS Elevation Feet	Contractor Post-processing Contractor Post-processing	Video Analysis Video Analysis	Vntested
			<u> </u>		-	+
35	BEG_GPS_MODE	(Text)	GPS Satellite Mode GPS Latitude Co-ordinate	Contractor Post-processing	Video Analysis	Untested
36	END_GPS_LAT	999.999999	(decimal degrees)	Contractor Post-processing	Video Analysis	<= 3.00 feet
30	LIVD_GIS_LAT	777.777777	GPS Longitude Co-ordinate	Contractor 1 ost-processing	Video Anarysis	<= 5.00 feet
37	END_GPS_LON	-999.999999	(-decimal degrees)	Contractor Post-processing	Video Analysis	<= 3.00 feet
38	END GPS ELEV	99999.9	GPS Elevation Feet	Contractor Post-processing	Video Analysis	Untested
39	END_GPS_MODE	(Text)	GPS Satellite Mode	Contractor Post-processing	Video Analysis	Untested
40	DATUM	(Text)	LL WGS84 DD	Contractor Post-processing	Database Processing	100%
	-	(/	Removable USB video hard	8	6	
41	VIDEO	< <i>Park</i> >C04VID<#>	drive number	Contractor Post-processing	Database Processing	Untested
			Filename of .jpg image			
42	IMAGE	(Text)	showing feature	Contractor Post-processing	Automatic Output	Untested
43	DATE	MM/DD/YY	Data collection date	ARAN Data Collection	Automatic Output	100%
44	FILENAME	(Text)	Filename of raw data files	ARAN Data Collection	Automatic Output	100%
				Route ID Meeting/ARAN	Survey Crew	
45	SECTION	(Text)	Route section ID	Data Collection	Input/Automatic Output	100%
46	FKEY	(Numeric)	Unique record ID	Contractor Post-processing	Database Processing	100%
1	And Ebon	000000 / 1111 11 11	Raw MP of first video frame		D. I. D.	
47	VISI_FROM	999999 (millimiles)	showing feature	Contractor Post-processing	Database Processing	Untested
48	VISI_TO	999999 (millimiles)	Raw MP of last video frame	Contractor Dest masses:	Database Processing	Untostad
48	V131_1U	(IIIIIIIIIes)	showing feature	Contractor Post-processing	Database Processing	Untested

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

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

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

PMS_20, PMS_MILE, & PMS_TENTH Tables Metadata:

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
			4, for RIP data collection			100% Referenced to other
1	RIP_CYCLE	XX	Cycle 4	Route ID Meeting	FHWA Determination	tables
					Park Input/FHWA	
2	STATE	XX	State where route is located	Route ID Meeting	Determination	Untested. (1)
						100% Referenced to other
3	PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	tables
						100% Referenced to other
4	PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	tables
					Park Input/FHWA	100% Referenced to other
5	RTE_NO	9999XXX	Route number	Route ID Meeting	Classification	tables
					Park Input/FHWA	100% Referenced to other
6	FUNCT_CLASS	X	Route functional class	Route ID Meeting	Classification	tables
			Survey lane: PRI (primary)		Park Input/FHWA	
7	DIRECTION	XXX	or OPP (opposite)	Route ID Meeting	Determination	100%
			MP at start of road interval			
	DEC 10	000 000 ('1)	described by database			1000/ (2)
8	BEG_MP	999.999 (miles)	record	Contractor Post-processing	Database Processing	100% (3)
			MP at end of road interval			
9	END MP	999.999 (miles)	described by database record	Contractor Post-processing	Database Processing	100% (3)
9	END_MF	999.999 (IIIIIes)	Length of road interval as	Collitación Fost-processing	Database Flocessing	100% (3)
10	INT_LENGTH	999.9 (ft)	aggregated for data table	Contractor Post-processing	Database Processing	100%
11	RTE LENGTH	999.999 (miles)	Collected route length	ARAN Data Collection	Automatic Output	100% (3)
12	NO LANES	99	Number of lanes in route	ARAN Data Collection	Survey Crew Input	Untested. (1)
13	_	99	Data collection lane	 	Database Processing	Untested. (1)
13	LANE_NO	99	WiseCrax (crack detection	Contractor Post-processing	Database Processing	Untested
14	D_LANE_WIDTH	99.999 (ft)	software) analysis width	Contractor Post-processing	Automatic Output	Untested
15	LANE_WIDTH	99.9 (ft)	Width of lane	Contractor Post-processing	Video Analysis	95%, <=1.0 foot
16	PAVE_WIDTH	99.9 (ft)		Contractor Post-processing Contractor Post-processing	Video Analysis Video Analysis	95%, <=1.0 foot
-	_	. ,	Full pavement width	1 0	j	
17	SHLD_WIDTH_L	99.9 (ft)	Left shoulder width	Contractor Post-processing	Video Analysis	95%, <=1.0 foot (2)
18	SHLD_WIDTH_R	99.9 (ft)	Right shoulder width	Contractor Post-processing	Video Analysis	95%, <=1.0 foot (2)
1.0	am b dom r	37/4	N/A. Intended to be Left	ARAND C. C.		Values inaccurate, defaulted
19	SHLD_COND_L	N/A	shoulder condition	ARAN Data Collection	Survey Crew Input	to "N/A"
20	CHI D. COND. B.	NT / A	N/A. Intended to be Right	ADANDA CH	Con Con I	Values inaccurate, defaulted
20	SHLD_COND_R	N/A	shoulder condition	ARAN Data Collection	Survey Crew Input	to "N/A"
21	DDAIN COND I	NT/A	N/A. Intended to be Left	AD AN Data Callaction	Samuel Casar Instal	Values inaccurate, defaulted to "N/A"
21	DRAIN_COND_L	N/A	drainage condition	ARAN Data Collection	Survey Crew Input	
22	DDAIN COND D	N/A	N/A. Intended to be Right	ARAN Data Collection	Survey Crew Input	Values inaccurate, defaulted to "N/A"
22	DRAIN_COND_R	IN/A	drainage condition	AKAN Data Collection	Survey Crew Input	to N/A

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
23	SURF_TYPE	XX	Surface type of route	ARAN Data Collection	Survey Crew Input	Untested. (1)
24	PCR	999	Pavement Condition Rating	Contractor Post-processing	Database Processing	100% for calculation (6)
			Roughness Condition Index;			
25	RCI	999	-1 if invalid IRI	Contractor Post-processing	Database Processing	100% for calculation
26	SCR	999	Surface Condition Rating	Contractor Post-processing	Database Processing	100% for calculation (5) (6)
27	IRI_AVG	999.9 (inches/mile)	Average IRI	Contractor Post-processing	Database Processing	Untested
28	IRI_SD	999.9 (inches/mile)	IRI standard deviation	Contractor Post-processing	Database Processing	Untested
29	IRI_L	999.9 (inches/mile)	Left wheel path IRI	ARAN Data Collection	Automatic Output	Untested
30	IRI_R	999.9 (inches/mile)	Right wheel path IRI	ARAN Data Collection	Automatic Output	Untested
31	IRI_FLAG	0 or -1	-1 if invalid IRI data	Contractor Post-processing	Database Processing	Untested
32	RUT_INDEX	999	Rut index	Contractor Post-processing	Database Processing	100% for calculation (5)
			Average rut depth of both			
33	RUT_AVG	99.99 (inches)	wheelpaths	Contractor Post-processing	Database Processing	Untested (5)
			Maximum rut depth of both			
34	RUT_MAX	99.99 (inches)	wheelpaths	Contractor Post-processing	Database Processing	Untested (5)
35	RUT_SD	9.9	Rut depth standard deviation	Contractor Post-processing	Database Processing	Untested (5)
			Percent of low severity ruts			
36	RUT_LOW	999 (%)	(on a 0-200% scale) in both wheelpaths	Contractor Post-processing	Database Processing	Untested (5)
30	KU1_LOW	999 (%)	Percent of medium severity	Contractor Post-processing	Database Processing	Official (3)
			ruts (on a 0-200% scale) in			
37	RUT MED	999 (%)	both wheelpaths	Contractor Post-processing	Database Processing	Untested (5)
		222 (14)	Percent of high severity ruts			(2)
			(on a 0-200% scale) in both			
38	RUT_HI	999 (%)	wheelpaths	Contractor Post-processing	Database Processing	Untested (5)
			Cross fall at start of road			
39	XFALL	999.9 (% slope)	interval	ARAN Data Collection	Automatic Output	Untested
40	GRADE	000 0 (0/ -1)	Grade at start of road	ARAN Data Collection	A damentic O day	TI-4-4-4
40		999.9 (% slope)	interval		Automatic Output	Untested
41	AC_INDEX	999	Alligator cracking index Percent of WiseCrax	Contractor Post-processing	Database Processing	100% for calculation (5) (6)
			measured lane area with			
			low-severity alligator			As a Computed 95%
42	AC LOW	999.9999 (%)	cracking	Contractor Post-processing	Pavement Video Analysis	Confidence Level (5) (6)
	_	. ,	Percent of WiseCrax			
			measured lane area with			
			medium-severity alligator			As a Computed 95%
43	AC_MED	999.9999 (%)	cracking	Contractor Post-processing	Pavement Video Analysis	Confidence Level (5) (6)
			Percent of WiseCrax			1050
1 4 4	AC III	000 0000 (0/)	measured lane area with	Company of the Dord Company of the C	Design and Wide A and a de	As a Computed 95%
44	AC_HI	999.9999 (%)	high-severity alligator	Contractor Post-processing	Pavement Video Analysis	Confidence Level (5) (6)

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

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

ROUTE_GPS table metadata:

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
						100% referenced to other
1	RIP_CYCLE	XX	4, for RIP data collection Cycle 4	Route ID Meeting	FHWA Determination	tables
					Park Input/FHWA	
2	STATE	XX	State where route is located	Route ID Meeting	Determination	Untested
	DADIZ ALDILA	WWW	D. 1. 1.1 1.	Desta ID Marking	NIDG D. C.	100% Referenced to other
3	PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	tables 100% Referenced to other
4	PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	tables
<u> </u>	17HKK_1VO	71777	T drk numeric code	Route 15 Weeting	Park Input/FHWA	100% Referenced to other
5	RTE_NO	9999XXX	Route number	Route ID Meeting	Classification	tables
	_				Park Input/FHWA	100% Referenced to other
6	FUNCT_CLASS	X	Route functional classification	Route ID Meeting	Classification	tables
						100% Referenced to other
						tables . 100 characters fit in
7	RTE_NAME	(Text)	Route name	Route ID Meeting	Park Input	field
	I ANE MUMBER	00				TT 1
8	LANE_NUMBER	99	Data collection lane	Contractor Post-processing	Database Processing	Untested
9	DIRECTION	XXX	Survey lane: PRI (primary) or OPP (opposite)	Route ID Meeting	Park Input/FHWA Determination	Untested
	DIRECTION	AAA	OTT (opposite)	ARAN Data Collection,	Survey Crew Input/GPS	Ontested
10	MP	999.999	Mile Post (at 0.01 record)	Contractor Post-processing	Processing	Untested (3)
			GPS Latitude Co-ordinate	ARAN Data Collection,		, ,
11	GPS_LAT	999.999999	(decimal degrees)	Contractor Post-processing	Automatic Output	<= 3.00 feet
			GPS Longitude Co-ordinate	ARAN Data Collection,		
12	GPS_LON	-999.999999	(-decimal degrees)	Contractor Post-processing	Automatic Output	<= 3.00 feet
1.0	CDC ELEV	00000	771 - 4	ARAN Data Collection,		
13	GPS_ELEV	99999.9	Elevation GPS Satellite Mode	Contractor Post-processing ARAN Data Collection,	Automatic Output	Untested
14	GPS_MODE	XXX	during collection	Contractor Post-processing	Automatic Output	Untested
17	GI 5_WODL	ЖЖ	Cross Fall: % Slope at GPS	Contractor 1 ost-processing	Automatic Output	Ontested
			Location (Caution, Data not	ARAN Data Collection,		
15	XFALL	999.9	Validated)	Contractor Post-processing	Automatic Output	Untested
			Grade: % Slope at GPS Location	ARAN Data Collection,		
16	GRADE	999.9	(Caution, Data not Validated)	Contractor Post-processing	Automatic Output	Untested
17	HEADING	999.9	Heading Relative to True North	ARAN Data Collection	Automatic Output	Untested
18	DATUM	(Text)	LL_WGS84_DD	ARAN Data Collection	Database Processing	Untested
19	FILENAME	(Text)	Filename of raw data files	ARAN Data Collection	Automatic Output	Untested
20	FKEY	9999999	Unique record ID	Contractor Post-processing	Database Processing	Untested

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

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

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
			The Park's Alpha Code + "-" +			100%, Reference source for all
1	ROUTE_IDENT	XXXX-9999XXX	RTE_NO (below).	Route ID Meeting	Automatic Output	tables
						100%, Reference source for all
2	RIP_CYCLE	99	4, for RIP data collection Cycle 4	Route ID Meeting	FHWA Determination	tables
						100%, Reference source for all
3	PARK_ALPHA	XXXX	Park Alpha Code	Route ID Meeting	NPS References	tables
	171101_71271111	717777	Turk Tripha Code	Troute 15 Weeting	THE References	100%, Reference source for all
4	GROUP_ALPHA	XXXX	Group Alpha Code	Route ID Meeting	NPS References	tables
						100%, Reference source for all
5	PARK_NO	9999	Park Numeric Code	Route ID Meeting	NPS References	tables
						100%, Reference source for all
6	PARK_NAME	(text)	NPS Name of Park	Route ID Meeting	NPS References	tables
						100%, Reference source for all
7	RTE NO	9999XXX	Route Number	Route ID Meeting	Park Input	tables
	KIL_NO))))/AAA	Route (valide)	Route 1D Weeting	Tark Input	100%, Reference source for all
8	RTE_NAME	(Text)	Route Name	Route ID Meeting	Park Input	tables
	_	, , ,		J		100%, Reference source for all
9	FROM_DESC	(Text)	Beginning terminus of route	Route ID Meeting	Park Input/FHWA Determination	tables
						100%, Reference source for all
10	TO_DESC	(Text)	Ending terminus of route	Route ID Meeting	Park Input/FHWA Determination	tables
١				ARAN Data		100%, Reference source for all
11	INSP_DATE	MM/DD/YYYY	Collection Date	Collection	FHWA Determination	tables
12	ELINCT CLASS	XX	Functional Class	Douts ID Mastina	Park Input/FHWA Determination	100%, Reference source for all tables
	FUNCT_CLASS			Route ID Meeting	·	
13	STATE	XX	State where route is located	Route ID Meeting	Park Input/FHWA Determination	Untested (1)
1.4	GT A TEG	3737	Additional State Park Route	D . D.M .:	D 11 (FINAL D)	17 171
14	STATE2	XX	traverses	Route ID Meeting	Park Input/FHWA Determination	Untested (1)
			NPS's Facility Management Software System (FMSS) Asset			100%, Reference source for all
15	FMSS_NO	(Text)	number	Route ID Meeting	Park Input	tables
13	111100_110	(TOAL)	FMSS Surface Equipment	Route ID Wiceting	T ark input	mores
16	FMSS_SUR_EQP	(Text)	Number	Route ID Meeting	Park Input	Untested
		(/	Park Maintenance District Route		F	100%, Reference source for all
17	M_DISTRICT	(Text)	resides in	Route ID Meeting	Park Input	tables (1)
18	TOPOGRAPHY	(Text)	Predominate Terrain condition for	Route ID Meeting	FHWA Determination	100%, Reference source for all
10	1 22 0 0 1 1 1 1 1 1	(IOAt)	1 1 1 2 3 0 11 11 11 11 11 11 11 11 11 11 11 11 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- IIII Determination	10070, Itolololloc Boulec for all

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

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

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

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
			Route Total Length Guard/Guide			
81	GDRAIL_TLNG	9999.999 (ft)	Rail Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
			Route Total Length Guard/Guide			
82	GDWALL_TLNG	9999.999 (ft)	Wall Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
			Route Total Length Temporary		1	
83	TEMP_BARR_TLNG	9999.999 (ft)	Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
			Route Total Length Bollard		1	
84	BOLLARD_TLNG	9999.999 (ft)	Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
85	BARRIER_TLNG	9999.999 (ft)	Route Total Length All Barriers	RIP Post-processing	Automatic Output	100% Referenced to other tables
			Route Total Length Curbing			
86	CURB_TLNG	9999.999 (ft)	(excludes Parking Areas)	RIP Post-processing	Automatic Output	100% Referenced to other tables
			Route Total Length Low Water			
87	LWCROSS_TLNG	9999.999 (ft)	Crossings	RIP Post-processing	Automatic Output	100% Referenced to other tables
						100% Referenced to other tables
88	PAVDITCH_TLNG	9999.999 (ft)	Route Total Length Paved Ditch	RIP Post-processing	Automatic Output	(2)
89	TURNOUT_TLNG	9999.999 (ft)	Route Total Length Turnouts	RIP Post-processing	Automatic Output	100% Referenced to other tables
90	LANE_NUMBER	99	Number of Lane Tested	RIP Post-processing	Automatic Output	100% Referenced to other tables
						100% Reference source for all
91	LOCAL_FACTOR	9.9999	Park Location Factor	NPS Partner	Automatic Output	tables
						100% Reference source for all
92	E_ZONE	XXX	Route Environmental Zone	FHWA HPMA	Automatic Output	tables
						100% Reference source for all
93	PAVEMENT_DM	\$99,999,999.99	Pavement Deferred Maintenance	FHWA HPMA	Automatic Output	tables
						100% Reference source for all
94	CRV	\$99,999,999.99	Current Replacement Value	RIP Post-processing	Automatic Output	tables

Database Name: ROUTEINFO.mdb Table Name: PARK_TOTALS

	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
	THEE	TORWITT	EM ECTED VILLEE	BOCKCE	VILLIDITION	100% Referenced to other
1	RIP_CYCLE	99	4, for RIP data collection Cycle 4	Route ID Meeting	FHWA Determination	tables
			, , , , , , , , , , , , , , , , , , , ,			100% Referenced to other
2	PARK_ALPHA	XXXX	Park Alpha Code	Route ID Meeting	FHWA Determination	tables
			•			100% Referenced to other
3	GROUP_ALPHA	XXXX	Group Alpha Code	Route ID Meeting	NPS References	tables
						100% Referenced to other
4	PARK_NO	9999	Park Numeric Code	Route ID Meeting	NPS References	tables
						100% Referenced to other
5	PARK_NAME	XXXX	NPS Name of Park	Route ID Meeting	NPS References	tables
				Route ID Meeting and		
			Date that data was collected in the park	ARAN Data		100% Referenced to other
6	INSP_DATE	MM/DD/YYYY	(completion date).	Collection	FHWA Determination	tables
						100% Referenced to other
7	NPS_REGION	XXXX	Park Region	Route ID Meeting	Park Input	tables
						100% Referenced to other
8	DIVISION	XXXX	FHWA Division	Route ID Meeting	FHWA Determination	tables
						100% Referenced to other
9	T_PAVED_MI	999.999	Total Park Paved Miles	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
10	T_UNPAVED_MI	999.999	Total Park Unpaved Miles	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
11	T_ROUTE_MILES	999.999	Total Park Route Miles	RIP Post-processing	Automatic Output	tables
10	T ADAM DDIVEN	000 000	T (I D I A DANID ' M'I	DID D		100% Referenced to other
12	T_ARAN_DRIVEN	999.999	Total Park ARAN Driven Miles	RIP Post-processing	Automatic Output	tables
12	T ADAN IMHEC	999.999	Total Davis ADANII and Miles	DID Doot annouse in a	Ato-mostic Oceanist	100% Referenced to other tables
13	T_ARAN_LMILES	999.999	Total Park ARAN Lane Miles	RIP Post-processing	Automatic Output	100% Referenced to other
14	T_CONCESS_PAVED	999.999	Total Park Concession Paved Miles	RIP Post-processing	Automatic Output	tables
14	1_CONCESS_FAVED	777.777	Total Falk Colleession Faved Willes	Kir rost-processing	Automatic Output	100% Referenced to other
15	T_CONCESS_UNPAVED	999.999	Total Park Concession Unpaved Miles	RIP Post-processing	Automatic Output	tables
13	1_CONCLOS_UNIAVED	777.777	Total Lark Concession Onpaved Willes	iai i ost-processing	Tatomatic Output	100% Referenced to other
16	T_PRK_PAVEDSQFT	999.999	Total Park Parking Paved Square Feet	RIP Post-processing	Automatic Output	tables
10	1_1111_1111_1111	,,,,,,,	Total Park Parking Unpaved Square Total Park Parking Unpaved Square	Tar Tost processing	Tatomane Juiput	100% Referenced to other
17	T_PRK_UNPAVEDSQFT	999.999	Feet	RIP Post-processing	Automatic Output	tables
			Total Park Concession Parking Paved	1		100% Referenced to other
18	T_CPRK_PAVEDSQFT	999.999	Square Feet	RIP Post-processing	Automatic Output	tables

						EXPECTED
	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	ACCURACY
1.0			Total Park Concession Parking Unpaved			100% Referenced to other
19	T_CPRK_UNPAVEDSQFT	999.999	Square Feet	RIP Post-processing	Automatic Output	tables
20	T DARWING GOTT	000 000				100% Referenced to other
20	T_PARKING_SQFT	999.999	Total Park Parking Square Feet	RIP Post-processing	Automatic Output	tables
	T DADWING AND TO	000 000	Total Park Parking Equivalent Lane			100% Referenced to other
21	T_PARKING_LMILES	999.999	Miles	RIP Post-processing	Automatic Output	tables
22	T MDD GOET	000 000	Total Park Manually Rated Road Square	DIDD		100% Referenced to other
22	T_MRR_SQFT	999.999	Feet	RIP Post-processing	Automatic Output	tables
22	T CMPP COET	000 000	Total Park Concession Manually Rated	DID D		100% Referenced to other
23	T_CMRR_SQFT	999.999	Road Square Feet	RIP Post-processing	Automatic Output	tables
2.4	T MDD ANGUEG	000 000	Total Park Manually Rated Road	DIDD		100% Referenced to other
24	T_MRR_LMILES	999.999	Equivalent Lane Miles	RIP Post-processing	Automatic Output	tables
2.5		000 000	T. 15 17 30			100% Referenced to other
25	T_LMILES	999.999	Total Park Lane Miles	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
26	T_CULVERT_CNT	999	Total Park Culvert Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
27	T_DROP_INLET_CNT	999	Total Park Drop Inlet Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
28	T_GATE_CNT	999	Total Park Gate Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
29	T_TRAFLIGHT_CNT	999	Total Park Traffic light Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
30	T_SIGN_CNT	999	Total Park Sign Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
31	T_LWCROSS_CNT	999	Total Park Low Water Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
32	T_BRIDGE_CNT	999	Total Park Bridge Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
33	T_TUNNEL_CNT	999	Total Park Tunnel Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
34	T_PULLOUT_CNT	999	Total Park Pullout Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
35	T_INTERSEC_CNT	999	Total Park Intersections Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
36	T_ST_BNDRY_CNT	999	Total Park State Boundaries Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
37	T_PRK_BNDRY_CNT	999	Total Park Boundaries Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
38	T_RETWALL_CNT	999	Total Park Retaining Wall Count	RIP Post-processing	Automatic Output	tables
20		000		1	•	1000/ D C 11 17
39	T_RR_CROSS_CNT	999	Total Park RR Crossing Count	RIP Post-processing	Automatic Output	100% Referenced to other

	EIELD	EODMAT		COLIDGE	WALIDATION	EXPECTED
	FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	tables
						tables
						100% Referenced to other
40	T_CATTLE_CNT	999	Total Park Cattle Guard Count	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
41	T_OVHDSIGN_CNT	999	Total Park Overhead Sign Count	RIP Post-processing	Automatic Output	tables
4.0		000				100% Referenced to other
42	T_MILEMARK_CNT	999	Total Park Mile Marker Count	RIP Post-processing	Automatic Output	tables
12	T ELLYD CNT	999	Total Dada Fina Hardwart Count	DID Doot annouse in a	Automotic Outout	100% Referenced to other
43	T_FHYD_CNT	999	Total Park Fire Hydrant Count	RIP Post-processing	Automatic Output	tables 100% Referenced to other
44	T_OVERPASS_CNT	999	Total Park Overpass Count	RIP Post-processing	Automatic Output	tables
44	1_OVERFASS_CN1	777	Total Fark Overpass Count	Kir rost-processing	Automatic Output	100% Referenced to other
45	T_CABLE_TLNG	9999.999 (ft)	Total Length Park Cable Barriers	RIP Post-processing	Automatic Output	tables
15	T_CHBLE_TENG)))),))) (It)	Total Length Park Guard/Guide Rail	Terr Tost processing	Tutomatic Output	100% Referenced to other
46	T_GDRAIL_TLNG	9999.999 (ft)	Barriers	RIP Post-processing	Automatic Output	tables
		7777777 (=4)	Total Length Park Guard/Guide Wall			100% Referenced to other
47	T_GDWALL_TLNG	9999.999 (ft)	Barriers	RIP Post-processing	Automatic Output	tables
		` ′		1		100% Referenced to other
48	T_TEMP_BARR_TLNG	9999.999 (ft)	Total Length Park Temporary Barriers	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
49	T_BOLLARD_TLNG	9999.999 (ft)	Total Length Park Bollard Barriers	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
50	T_BARRIER_TLNG	9999.999 (ft)	Total Length All Park Barriers	RIP Post-processing	Automatic Output	tables
l						100% Referenced to other
51	T_CURB_TLNG	9999.999 (ft)	Total Length Park Curbing	RIP Post-processing	Automatic Output	tables
	T. L.W.CD.OGG, TV.N.G.	0000 000 (6)		DIDD		100% Referenced to other
52	T_LWCROSS_TLNG	9999.999 (ft)	Total Length Park Low Water Crossings	RIP Post-processing	Automatic Output	tables
53	T DAMDITCH TING	0000 000 (ft)	Total Langth Dayle Dayled Ditches	DID Doct muccoccing	Automotic Output	100% Referenced to other
33	T_PAVDITCH_TLNG	9999.999 (ft)	Total Length Park Paved Ditches	RIP Post-processing	Automatic Output	tables (2) 100% Referenced to other
54	T_TURNOUT_TLNG	9999.999 (ft)	Total Length Park Turnouts	RIP Post-processing	Automatic Output	tables
34	1_10KNOU1_1LNU	7777.333 (11)	Total Longui Lark Turnouts	Territor-processing	Tutomatic Output	100% Referenced to other
55	PARK_PCR	99.99	Overall Park PCR Rating	RIP Post-processing	Automatic Output	tables
		77.77	O . Juni 1 min 1 Cit running	THE FOOD PROCESSING	Tatomane Output	100% Referenced to other
56	PARK RCI	99.99	Overall Park RCI Rating	RIP Post-processing	Automatic Output	tables
	_	15.5		1 2 2 2 2 2 2 2 2	T	100% Referenced to other
57	PARK_SCR	99.99	Overall Park SCR Rating	RIP Post-processing	Automatic Output	tables
						100% Referenced to other
58	PARK_RUT_INDEX	99.99	Overall Park Rutting Index Rating	RIP Post-processing	Automatic Output	tables
			Overall Park Alligator Cracking Index			100% Referenced to other
59	PARK_AC_INDEX	99.99	Rating	RIP Post-processing	Automatic Output	tables

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

Business Practices for Route Numbering and Roadway Asset Identification

Introduction and Background:

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

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

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

Issue Statement:

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

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

Proposed Actions:

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

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

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

Discussion:

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

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

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

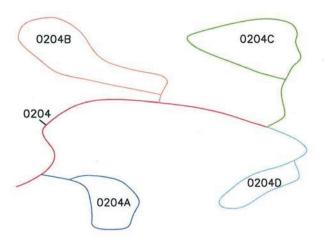


Figure 1: Campground with five routes and five assets

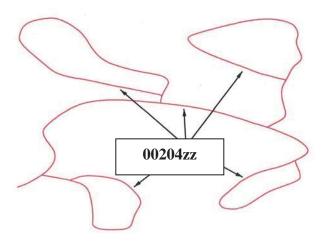


Figure 2: Campground with all loops combined into one route and one asset. This has eliminated four assets.

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

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

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

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

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

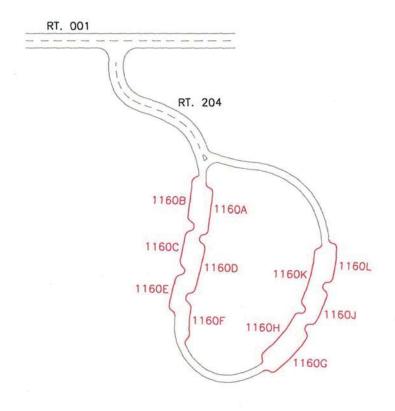


Figure 3: Parking with access route 204 and multiple parking areas (1160 A-L). Currently, this parking area is 12 routes and 12 assets (one 1100 asset and 11 1300 assets).

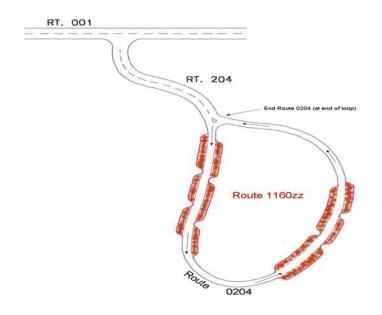


Figure 4: Parking with access route 204 and one parking area 1160zz. Route 204 is assumed longer than 0.25 miles. There are now 2 assets (one 1100 asset, one 1300 asset) instead of 12.

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

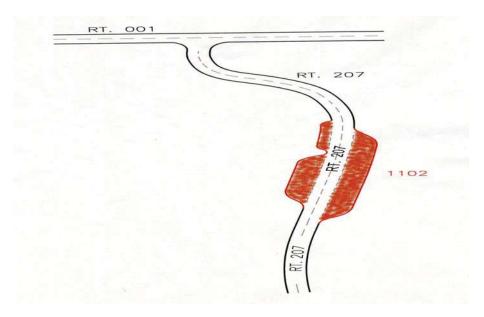


Figure 5: Parking with access route 207 running through and continuing beyond parking 1102. This access route cannot be considered a part of the parking area and two routes and two assets continue to exist.

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

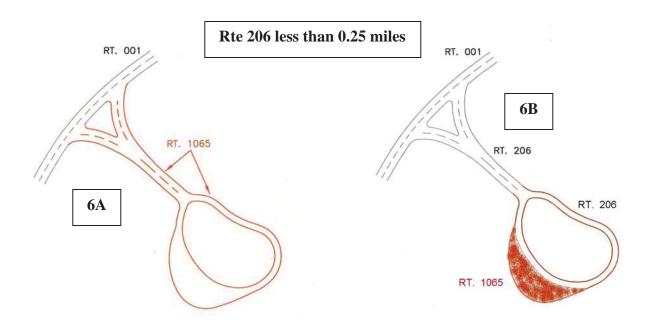


Figure 6: Since the access route is less than .25 miles in length and the only use of the access is to the parking, one route for both the access and the parking area can be established.

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

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

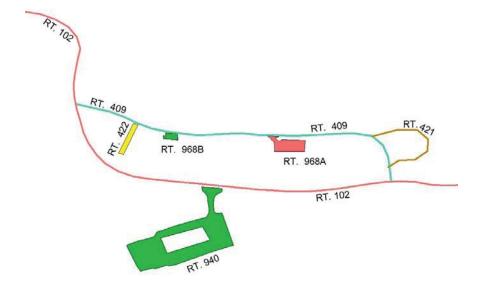


Figure 7 – Current Housing area access configuration. Route 409 is less than 0.25 miles long.

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

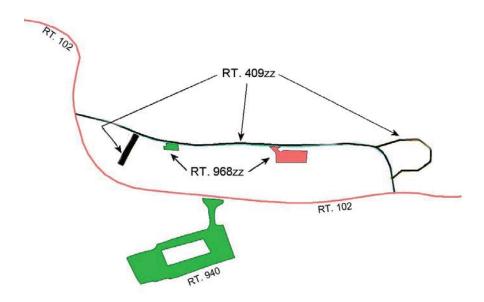


Figure 8 – Combined housing area access configuration – Parking and road assets combined to eliminate 3 assets.