



The Road Inventory of Zion National Park ZION – 1590



national park service



Road Inventory Program

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



Zion National Park in Utah

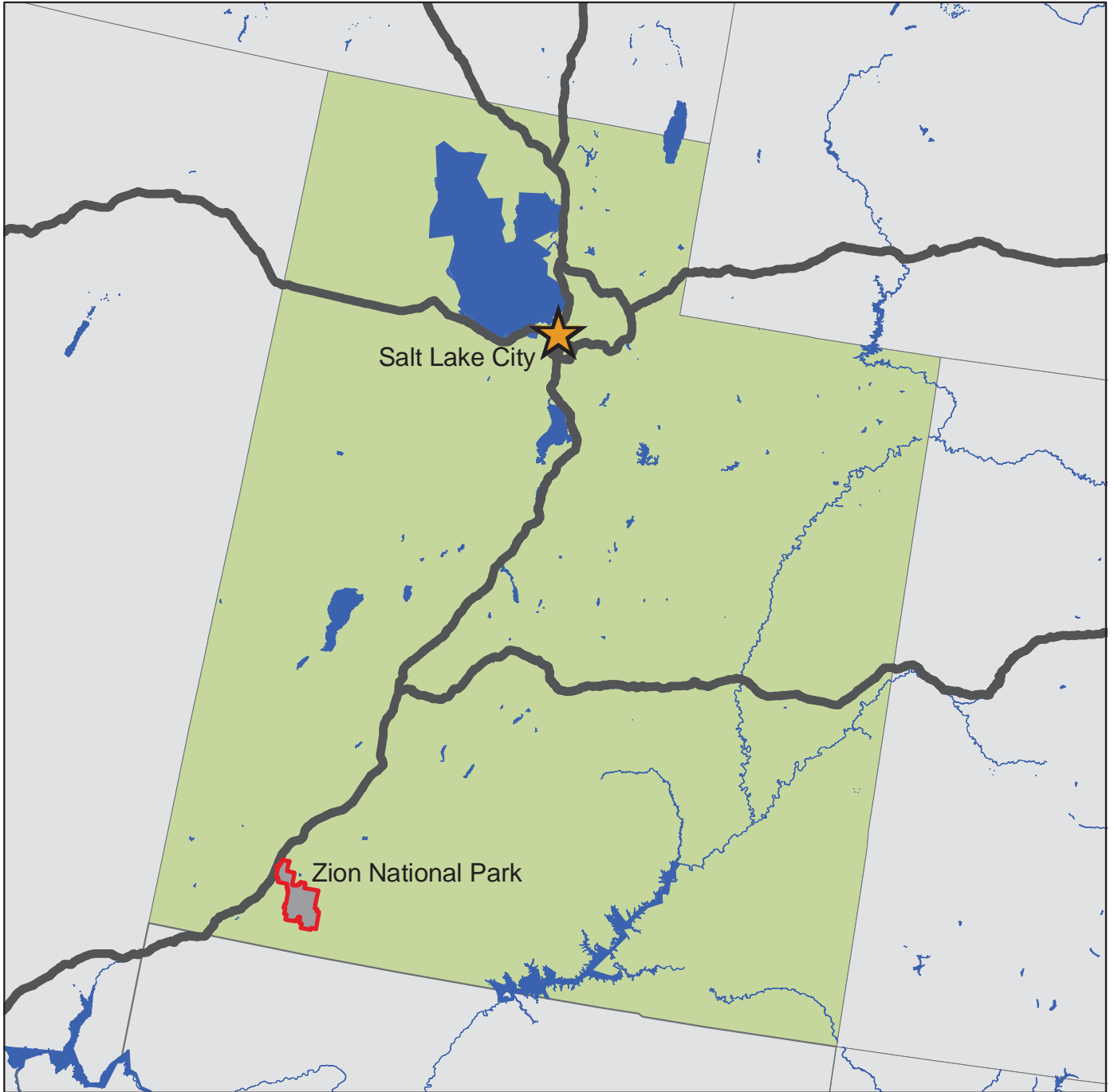




TABLE OF CONTENTS

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

INTRODUCTION

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

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

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

In an effort to maintain and update the RIP data, a cyclical data collection and reporting process was re-established in the 1990's. The FLH completed two cycles of RIP data collection between 1994 and 2001. Cycle 1 data was collected in 44 large parks from 1994 to 1995. This data was found to be unusable for comparison to future cycles. Cycle 2 data was collected from March 1997 to January 2001 in 79 large parks and 5 small parks containing 4,874 route miles. Each park received a copy of a Cycle 2 RIP Report, also known as the "Blue Book."

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

In 1998, the Transportation Equity Act for the 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 the FHWA are in the process of developing a PMS. The PMS will assist the decision-makers in effectively spending limited PRP Program funds. The PMS will provide information for planning and programming road maintenance, rehabilitation, and reconstruction activities. RIP data will provide the basic information for this system.

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

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

In the Cycle 3 Reports, a general condition rating of excellent, good, fair and poor is ascribed to each one-mile section of paved roadway, and to each paved parking area. This condition rating system provides a realistic means of assessing the general funding needs for road improvements. Along with these descriptive condition ratings, a numerical rating between 0 and 100 is ascribed to each mile of road and to each parking area.. This numerical rating is called a Pavement Condition Rating (PCR). The PCR rating system is described in Section 10 of this report.

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

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

FHWA RIP Coordinator:

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

Zion National Park Summaries

Overall Park Mileage Summary

PARK TOTAL SUMMARY ITEMS	TOTAL	DATE
Paved ARAN Driven Route Miles	39.63	4/10/2003
Unpaved Estimated Route Miles	10.40	4/10/2003
Paved ARAN and Unpaved Route Miles	50.03	
Paved ARAN Driven Lane Miles	76.23	4/10/2003
Paved MRR Lane Miles	0.08	4/10/2003
Parking Lot Lane Miles	15.62	4/10/2003
Total Paved Lane Miles	91.92	

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

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

Zion National Park Summaries

Cost to Improve to "Excellent" Condition

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

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

Existing Condition	Existing Miles	Estimated Cost to Improve
Excellent	0.88	\$26,400
Good	2.58	\$283,800
Fair	10.25	\$5,740,000
Poor	25.92	\$39,916,800
Totals	39.63	\$45,967,000

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

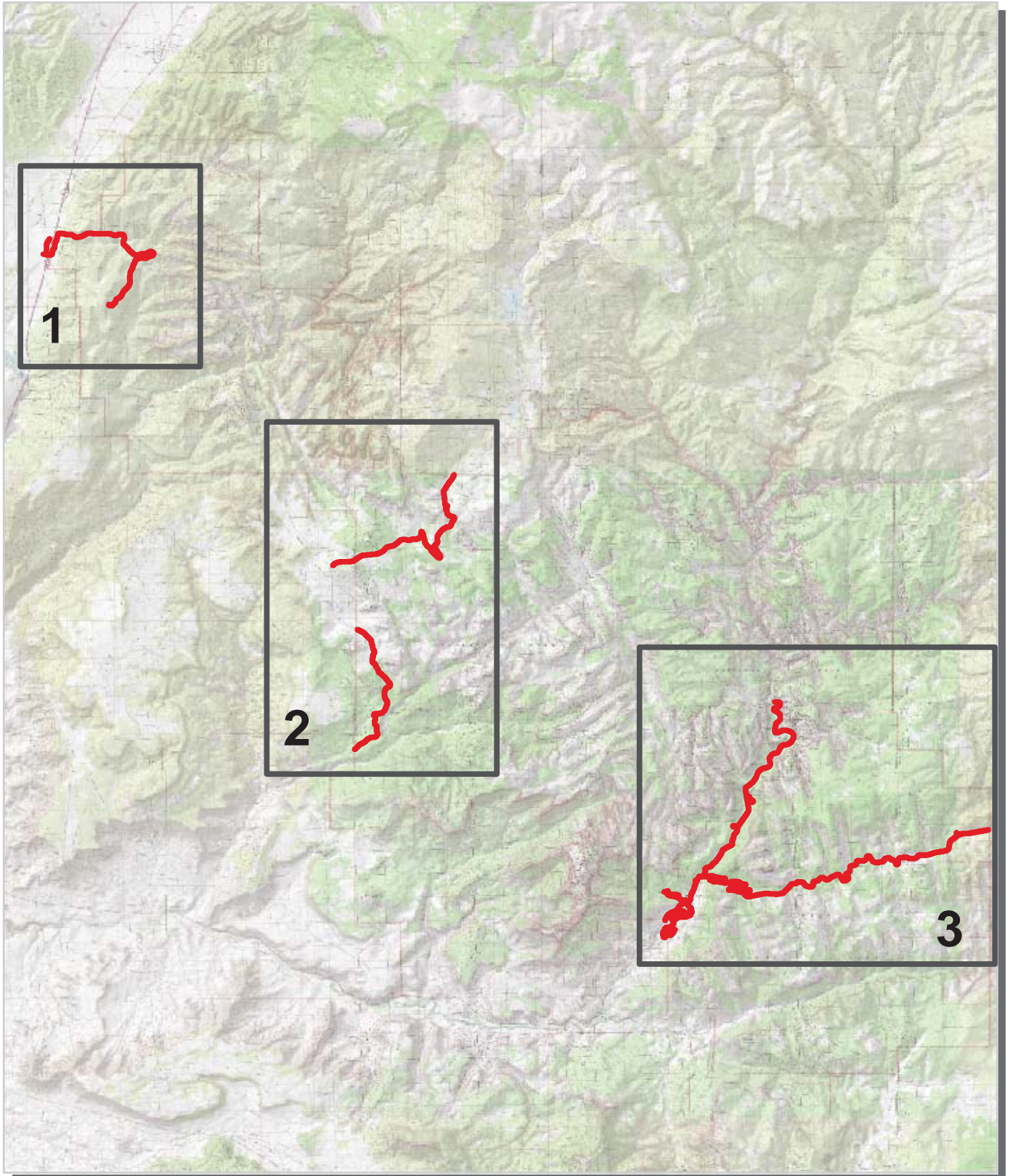
These numbers are for preliminary planning purposes only and should not be used for project level proposals. For park planning level analysis, apply your park multiplier for more accurate regional costs.

Zion National Park Summaries

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

F.C.	Pavement Condition Rating								TOTAL MILES
	Poor (<=60)		Fair (61-84)		Good (85-94)		Excellent (95-100)		
	MILES	%	MILES	%	MILES	%	MILES	%	
1	21.23	53.57%	8.94	22.56%	2.35	5.93%	0.78	1.97%	33.30
2									
3	2.45	6.18%	0.87	2.20%	0.23	0.58%	0.06	0.15%	3.61
4									
5	1.52	3.84%	0.20	0.50%			0.04	0.10%	1.76
6	0.72	1.82%	0.24	0.61%					0.96
7									
8									
Totals	25.92	65.40%	10.25	25.86%	2.58	6.51%	0.88	2.22%	39.63

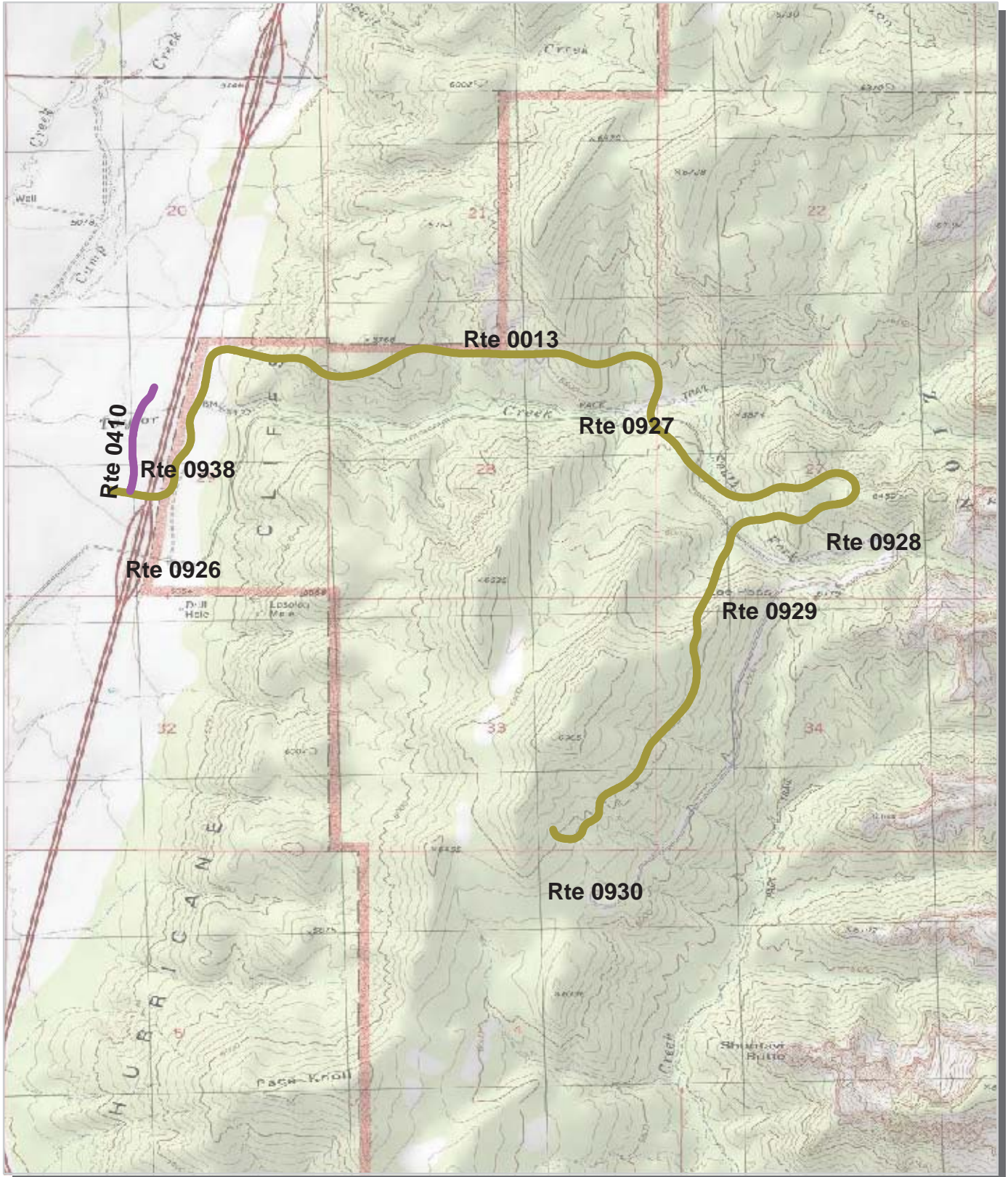
Zion National Park Route Location Key Map



 Park Owned Routes



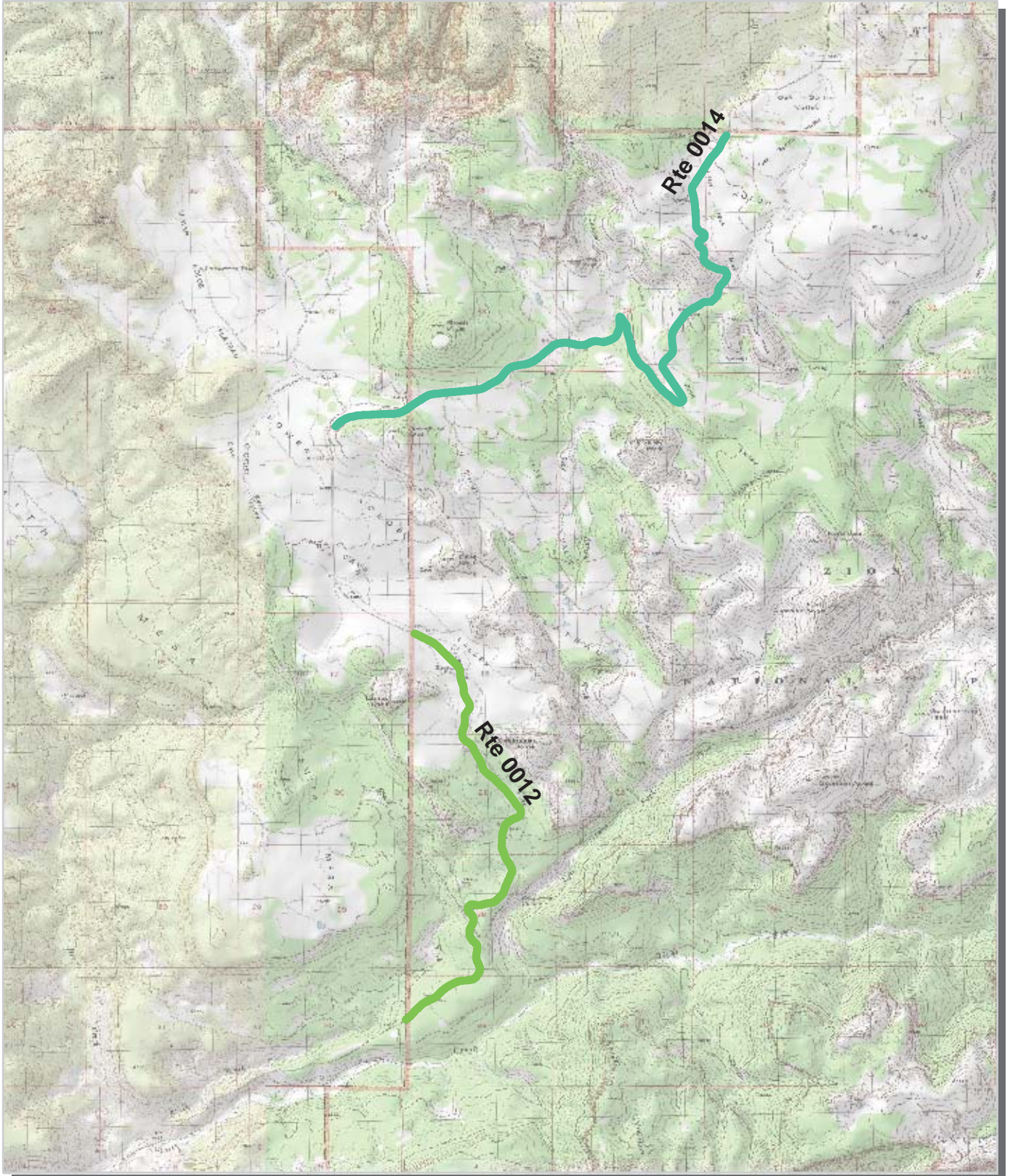
Zion National Park Route Location Map Area Map 1



Unique colors used to differentiate routes



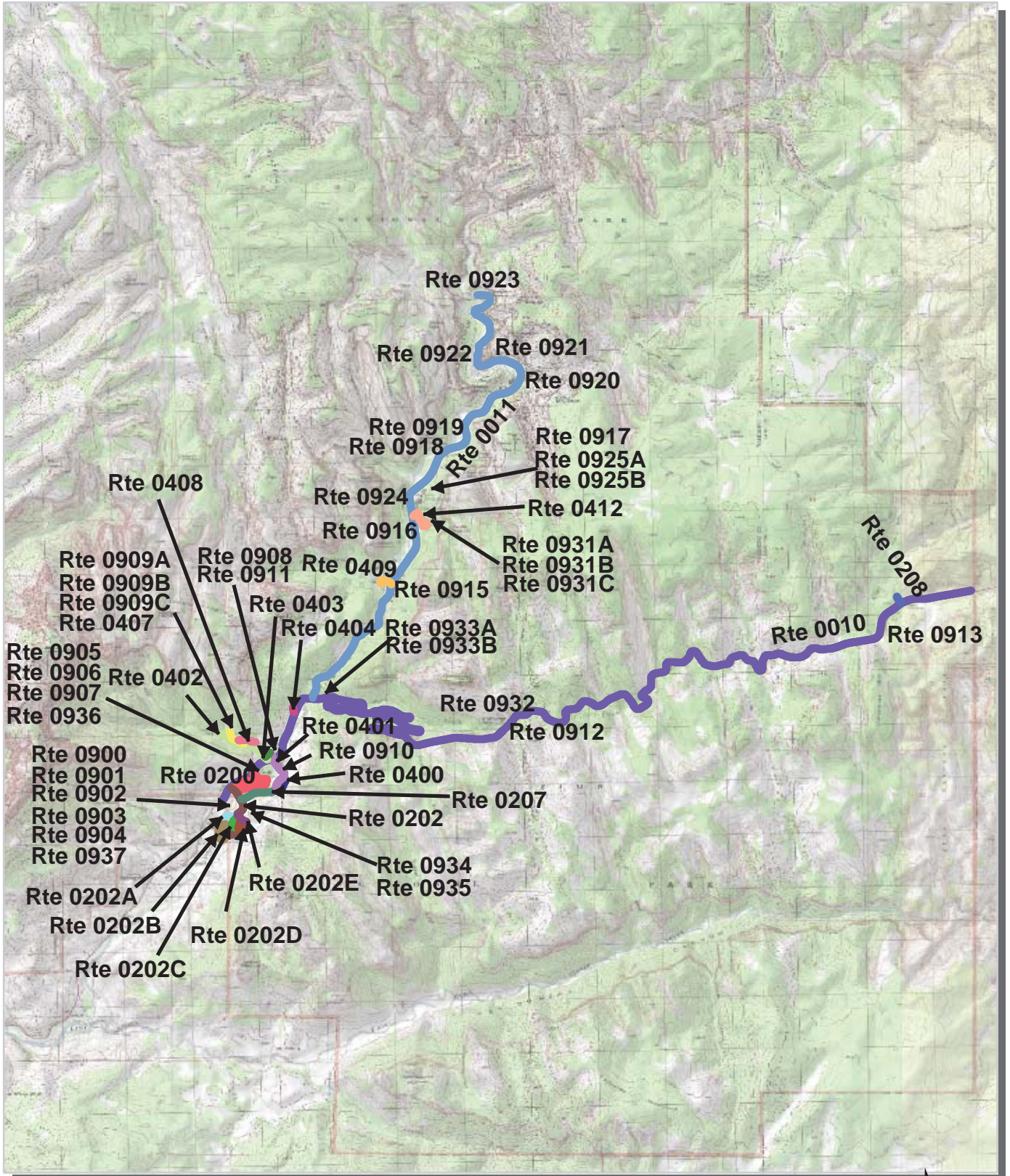
Zion National Park Route Location Map Area Map 2



Unique colors used to differentiate routes



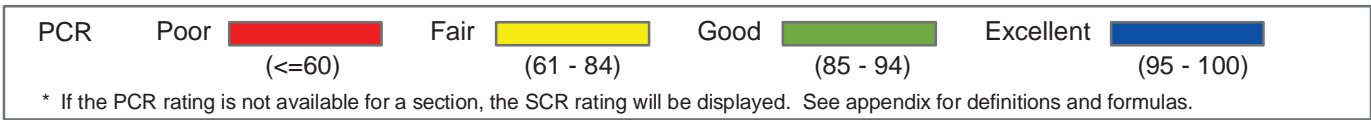
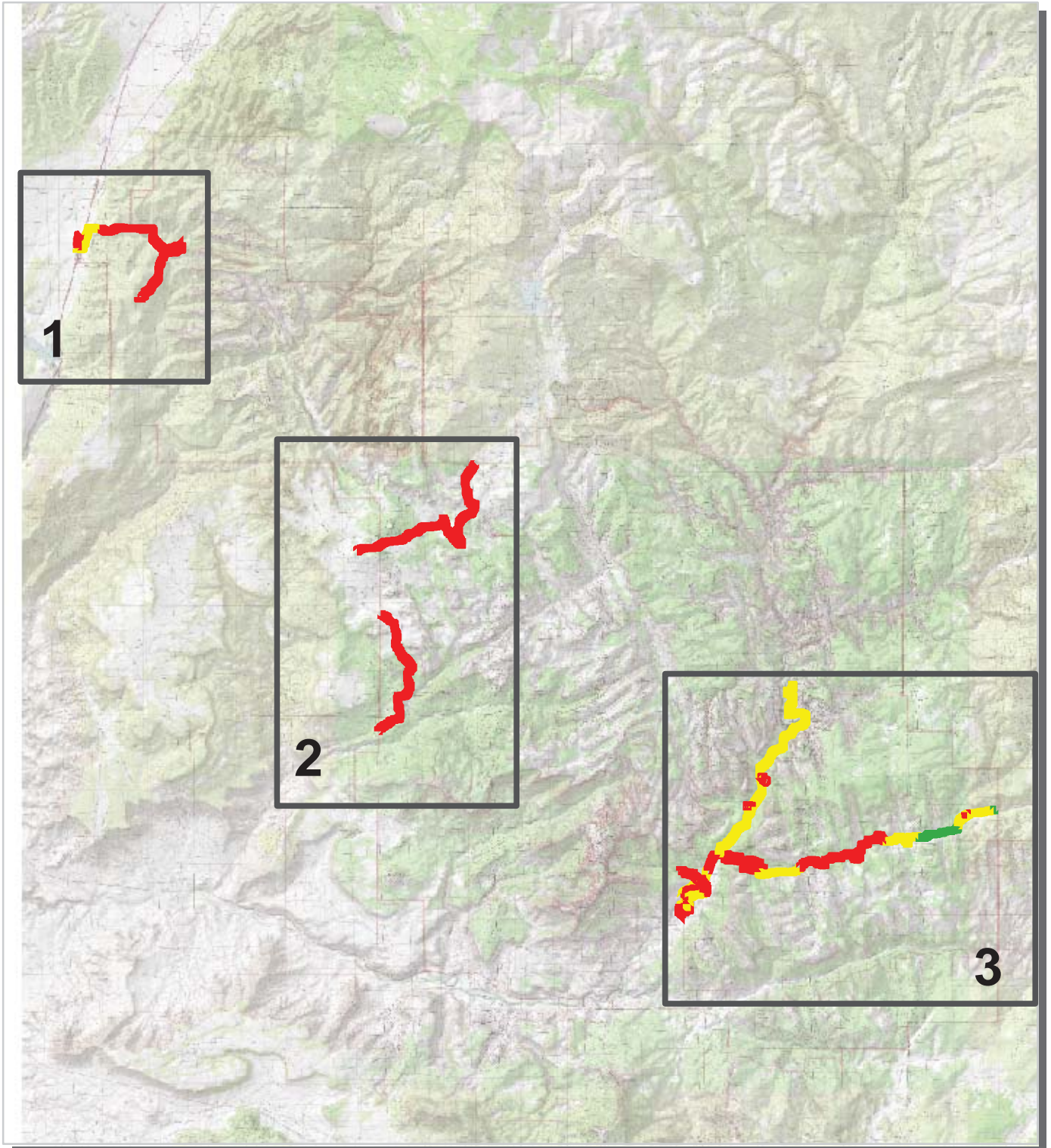
Zion National Park Route Location Map Area Map 3



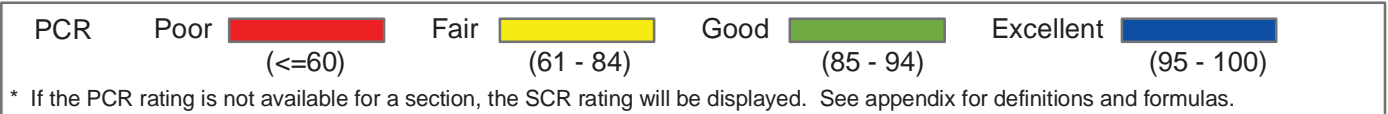
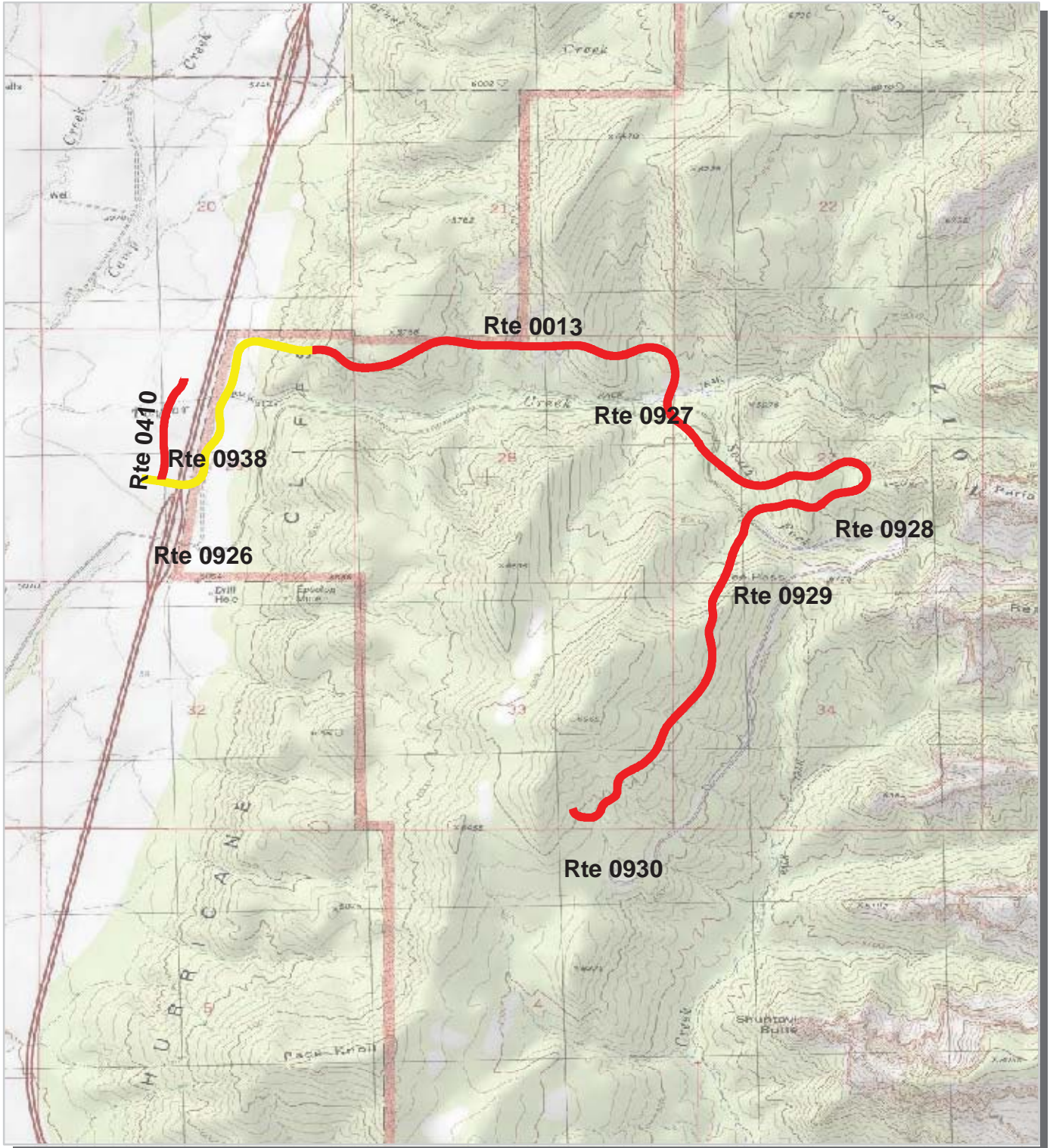
Unique colors used to differentiate routes



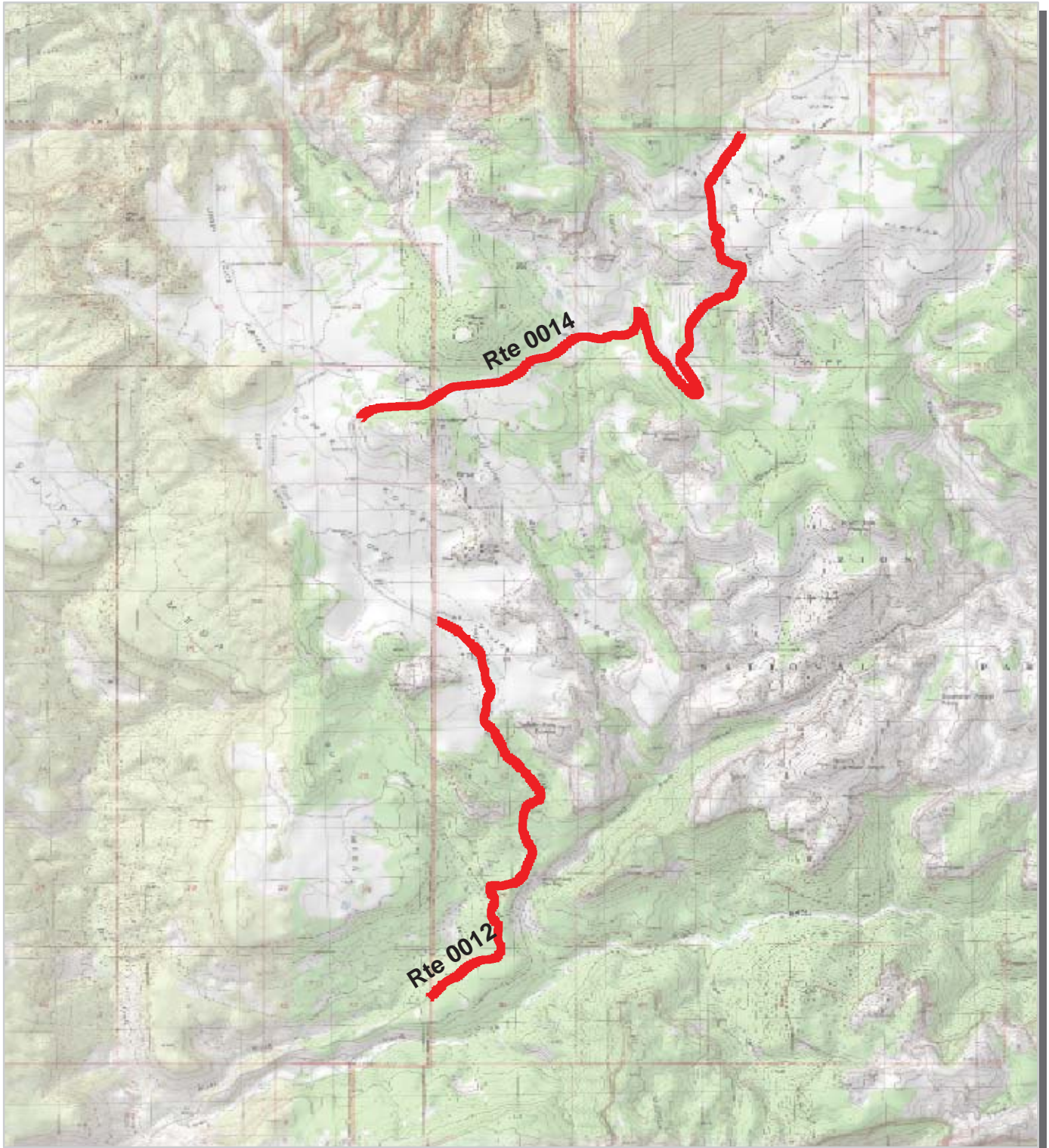
Zion National Park Route Condition Key Map PCR - Mile by Mile



Zion National Park Route Condition Area Map 1 PCR - Mile by Mile



Zion National Park Route Condition Area Map 2 PCR - Mile by Mile



PCR Poor Fair Good Excellent
(≤ 60) (61 - 84) (85 - 94) (95 - 100)

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



NPS/RIP Route ID Report

(Numerical By Route #)

Shading Color Key:
Red text denotes approx. mileage

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

ZION

Zion National Park

Rte. #	FMSS Asset #	Route Name	Route Description		Paved Miles	Un-Paved Miles	Rte. Lgth	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type
			From	To							
0010	65424	Zion-Mt Carmel Highway	From South Park Boundary past East Park Entrance Station	To East Park Boundary	12.07	0.00	12.07	1	2	0	AS
0011	65486	Valley Floor Highway	From Route 0010 at MP 1.57 on Left	To Route 0923	6.14	0.00	6.14	1	2	0	AS
0012	65631	Kolob Terrace Road South	From West Park Boundary (South)	To West Park Boundary (North)	4.04	0.00	4.04	1	2	0	AS
0013	65658	Kolob Canyon Road	From West Park Boundary	To End	5.25	0.00	5.25	1	2	0	AS
0014	65633	Kolob Terrace Road North	From WestPark Boundary	To North Park Boundary	5.80	0.00	5.80	1	2	0	AS
0200	65428	South Campground Outer Loop	From Route 0010 at MP 0.4 on Right	To end of loop	0.86	0.00	0.86	3	1	0	AS
0200A		South Campground Inside roads	From Campground roads inside Route 200 loop	To End	0.00	0.00	0.00	2	1	63,690	OC
0202	65429	Watchman Campground Road	From Route 0010 at MP 0.15 on Right	To End of Loop	0.87	0.00	0.87	3	2	0	AS
0202A		Watchman Campground Loop A	From Route 0202	To End of Loop	0.27	0.00	0.27	3	1	0	AS
0202B		Watchman Campground Loop B	From Route 0202	Through B Loop	0.46	0.00	0.46	3	1	0	AS
0202C		Watchman Campground Loop C	From Route 0202E	To End of Loop	0.29	0.00	0.29	3	1	0	AS
0202D		Watchman Campground Loop D	From Route 0202E	To End of Loop	0.27	0.00	0.27	3	1	0	AS
0202E		Watchman Campground Loops C & D Maintenance Access	From Route 0202 on Left	To Maintenance Area	0.13	0.00	0.13	3	1	0	AS
0204	65635	MIA Camp Road	From Route 0205	To End	0.00	6.30	6.30	2	2	0	GR
0205	65634	Lava Point Road	From West Park Boundary	To End	0.00	0.85	0.85	3	2	0	GR
0206	65632	Smith Mesa Road	From Route 0012	To West Park Boundary	0.00	1.00	1.00	3	2	0	GR
0207	65469	Watchman Trail Road	From Route 0202	To Route 0401 and Route 0400 Intersection	0.37	0.00	0.37	3	2	0	AS
0208		East Rim Trail Access	From Route 0010 at MP 11.4 on Left	To End of Pavement	0.09	0.00	0.09	3	2	0	AS
0209	65637	Upper Lee Valley Road	From Route 0014 on Right	To End	0.00	0.75	0.75	3	2	0	GR
0400	65432	Watchman Cutoff Road	From Route 0401	To Route 0401 and Route 0207 Intersection	0.18	0.00	0.18	5	2	0	AS
0401		Watchman Residence Road	From Route 0403	To Route 0207 and Route 0400 Intersection	0.48	0.00	0.48	5	2	0	AS
0402	65433	Oak Creek Road	From Route 0010 at MP 0.68 on Left	To gate at Route 0909	0.57	0.00	0.57	5	2	0	AS
0403	65435	Oak Creek Headquarters Road	From Route 0402	To Route 0908	0.08	0.00	0.08	5	2	0	AS
0404	65436	Visitor Center Residential Road	From Route 0010 at MP 1.3 on Left	To End	0.07	0.00	0.07	5	1	0	AS
0407	65427	Oak Creek Residence Road	From Route 0402 veering Left at Intersection with Route 0408	To End	0.23	0.00	0.23	5	2	0	AS
0408		Oak Creek Residence Spur Road	From Route 0407	To End	0.18	0.00	0.18	6	2	0	AS
0409	65505	Horse Corral Road	From Route 0011 at MP 1.6 on Left	To Horse Corral	0.15	0.00	0.15	5	1	0	AS

NPS/RIP Route ID Report

(Numerical By Route #)

Shading Color Key:

Red text denotes approx. mileage

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

ZION

Zion National Park

Rte. #	FMSS Asset #	Route Name	Route Description		Paved Miles	Un-Paved Miles	Rte. Lgth	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type
			From	To							
0410	65660	Kolob Service Road	From Route 0013	To End of Pavement	0.44	0.00	0.44	6	2	0	AS
0411		Kolob Residence Road	From Route 0410	To End	0.07	0.00	0.07	6	1	4,614	OC
0412		Concessionaire / Dorm Access Road	From Route 0011 at MP 2.45 on Right	To End of loop	0.34	0.00	0.34	6	1	0	AS
0413	65636	Fire Pit Knoll Cabin Road	From Route 0014 on Left	To End	0.00	1.50	1.50	6	1	0	GR
0900	65438	South Entrance Parking	Adjacent to Route 0010		0.00	0.00	0.00	9		12,501	OC
0901	65470	Watchman Campground Dump Station	Adjacent to Route 0202		0.00	0.00	0.00	9		5,775	OC
0902	65482	Zion Canyon Visitor Center RV Parking	Adjacent to Route 0202		0.00	0.00	0.00	9		158,319	OC
0903	65483	Watchman Amphitheater Dump Station	Adjacent to Route 0202		0.00	0.00	0.00	9		6,142	OC
0904	65471	Watchman Amphitheater Loop B Parking	Adjacent to Route 0202B		0.00	0.00	0.00	9		3,498	OC
0905	65484	South Campground Dump Station	Adjacent to Route 0200		0.00	0.00	0.00	9		11,982	OC
0906	65472	Zion Nature Center Parking	Adjacent to Route 0200		0.00	0.00	0.00	9		29,671	OC
0907	65474	South Amphitheater Parking	Adjacent to Route 0906		0.00	0.00	0.00	9		24,767	AS
0908	65475	Oak Creek Headquarters Parking	At End of Route 0403		0.00	0.00	0.00	9		21,062	OC
0909A	65476	Oak Creek Maintenance Area A	End of Route 0402		0.00	0.00	0.00	9		2,022	AS
0909B		Oak Creek Maintenance Overflow Parking B	Near end of Route 0402 on left		0.00	0.00	0.00	9		7,919	AS
0909C		Oak Creek Maintenance Overflow Parking C	Near end of Route 0402 on right		0.00	0.00	0.00	9		7,919	AS
0910	65485	Helicopter Landing Pad	Adjacent to Route 0401		0.00	0.00	0.00	9		8,246	OC
0911	65477	Oak Creek Visitor Center Parking	Adjacent to Route 0010		0.00	0.00	0.00	9		50,089	OC
0912	65478	North Tunnel Entrance Parking	Adjacent to Route 0010		0.00	0.00	0.00	9		5,301	AS
0913	65479	Checkerboard Mesa Viewpoint Parking	Adjacent to Route 0010		0.00	0.00	0.00	9		9,467	OC
0915	65491	Court of the Patriarchs Parking	Adjacent to Route 0011		0.00	0.00	0.00	9		6,103	AS
0916	65494	Mount Maroni Turnout	Adjacent to Route 0011		0.00	0.00	0.00	9		6,620	OC
0917	65496	Zion Lodge Cabin Parking	Adjacent to Route 0011 and Route 0412		0.00	0.00	0.00	9		91,724	AS
0918	65497	West Rim Trailhead Parking	Adjacent to Route 0011		0.00	0.00	0.00	9		4,100	OC
0919	65498	Grotto Picnic Parking	Adjacent to Route 0011		0.00	0.00	0.00	9		19,958	AS
0920	65499	Weeping Rock Parking	Adjacent to Route 0011		0.00	0.00	0.00	9		18,075	OC
0921	65500	The Great White Throne Parking	Adjacent to Route 0011		0.00	0.00	0.00	9		5,697	OC
0922	65501	Big Bend Bus and Trailer Parking	Adjacent to Route 0011		0.00	0.00	0.00	9		14,711	AS

NPS/RIP Route ID Report

(Numerical By Route #)

Shading Color Key:

Red text denotes
approx. mileage

White = Paved Routes, ARAN Driven

Yellow = Unpaved Routes, ARAN not Driven

Blue = All Paved Parking Areas

Grey = Paved Routes, ARAN not Driven

Red =

Green = All Unpaved Parking Areas

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

Purple =

ZION

Zion National Park

Rte. #	FMSS Asset #	Route Name	Route Description From To	Paved Miles	Un-Paved Miles	Rte. Lgth	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type
0923	65502	Temple of Sinawava Parking	At End of Route 0011	0.00	0.00	0.00	9		33,883	AS
0924	65503	Emerald Pools Horse Corral	Adjacent to Route 0011	0.00	0.00	0.00	9		17,020	OC
0925A		Zion Lodge Visitor Parking	Adjacent to Route 0011	0.00	0.00	0.00	9		39,837	OC
0925B		Zion Lodge Maintenance Parking	Adjacent to Route 0925A	0.00	0.00	0.00	9		5,607	OC
0926	65661	Kolob Visitors Center Parking	Adjacent to Route 0013	0.00	0.00	0.00	9		40,738	OC
0927	65665	Taylor Creek Trailhead Parking	Adjacent to Route 0013	0.00	0.00	0.00	9		15,763	OC
0928	65663	Parking at MP 3.20	Adjacent to Route 0013	0.00	0.00	0.00	9		15,746	OC
0929	65664	Lee Pass Trailhead Parking	Adjacent to Route 0013	0.00	0.00	0.00	9		4,882	OC
0930	65662	Timber Creek Overlook Parking	At End of Route 0013	0.00	0.00	0.00	9		30,194	OC
0931A		Concessionaire / Dorm Parking A	Adjacent to Route 0412 at MP 0.09 on Right	0.00	0.00	0.00	9		1,358	AS
0931B		Concessionaire / Dorm Parking B	Adjacent to Route 0412 at MP 0.16 on Right	0.00	0.00	0.00	9		6,673	AS
0931C		Concessionaire / Dorm Parking C	Adjacent to Route 0412 at MP 0.19 on Right	0.00	0.00	0.00	9		1,760	AS
0932		Canyon Overlook Parking	Adjacent to Route 0010 at MP 6.2 on Left	0.00	0.00	0.00	9		2,662	OC
0933A		Pine Creek Overlook Parking A	Adjacent to Route 0010 at MP 1.6 on Right	0.00	0.00	0.00	9		1,245	OC
0933B		Pine Creek Overlook Parking B	Adjacent to Route 0010 at MP 1.65 on Right	0.00	0.00	0.00	9		3,065	OC
0934		Shuttle Bus Parking	Adjacent to Route 0207	0.00	0.00	0.00	9		112,513	AS
0935		Watchman Campground Walk-in Parking	Adjacent to Route 0202E	0.00	0.00	0.00	9		11,011	AS
0936		Zion Nature Center Parking	Adjacent to Route 0907	0.00	0.00	0.00	9		8,066	OC
0937		Zion Canyon Visitor Center Shuttle Bus Parking	Adjacent to Route 0202	0.00	0.00	0.00	9		12,352	OC
0938		Kolob Maintenance Parking	Adjacent to Route 0410	0.00	0.00	0.00	9		10,884	AS
Totals				39.70	10.40	50.10			975,233	

NPS/RIP Route ID Report

(Numerical By Route #)

Shading Color Key:

Red text denotes approx. mileage

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

General Park Road Functional Classification Table

- Class 1 Principal Park Road/Rural Parkway (Public Roads) - Roads which constitute the main access route, circulatory tour, or thoroughfare for park visitors. Route Numbers 1 - 99. Note: Rural parkways (e.g. Natchez Trace) are numbered 1 - 9. State Routes Inventoried for Park. Route Numbers 5000-5999
- Class 2 Connector Park Road (Public Roads) - Roads which provide access within a park to areas of scenic, scientific, recreational or cultural interest, such as overlooks, campgrounds, etc. Route Numbers 100-199.
- Class 3 Special Purpose Park Road (Public Roads) - Roads which provide circulation within public areas, such as campgrounds, picnic areas, visitor center complexes, concessionaire facilities, etc. These roads generally serve low-speed traffic and are often designed for one-way circulation. Route Numbers 200-299.
- Class 4 Primitive Park Roads (Public Roads) - Roads which provide circulation through remote areas and/or access to primitive campgrounds and undeveloped areas. These roads frequently have no minimum design standards and their use may be limited to specially equipped vehicles. Route Numbers 200-299.
Note: Functional Classes 3 and 4 have the same route numbers because, historically, they were numbered similarly.
- Class 5 Administrative Access Road (Administrative Roads) - All public roads intended for access to administrative developments or structures such as park offices, employee quarters, or utility areas. Route Numbers 400-499.
- Class 6 Restricted Road (Administrative Roads) - All roads normally closed to the public, including patrol roads, truck trails, and other similar roads. Route Numbers 400-499.
Note: Functional Classes 5 and 6 have the same route numbers because historically they were numbered similarly and often there is little distinction between these routes. For example, because utility areas and employee housing are often closed to the public, this restriction would result in classification of FC 6 rather than FC 5.
- Class 7 Urban Parkway (Urban Parkways and City Streets) - These facilities serve high volumes of park and non-park related traffic and are restricted, limited-access facilities in an urban area. This category of roads primarily encompasses the major parkways which serve as gateways to our nation's capital. Other major park roads or portions thereof, however, may be included in this category. Route Numbers 1-9.
- Class 8 City Streets (Urban Parkways and City Streets) - City streets are usually extensions of the adjoining street system that are owned and maintained by the National Park Service. The construction and/or reconstruction should conform with accepted local engineering practice and local conditions. Route Numbers 600-699.
- Class 9 Boat Ramp - (Public and Administrative) Route Numbers 800-899.
Parking Area - (Public and Administrative) Route Numbers 900-1999.

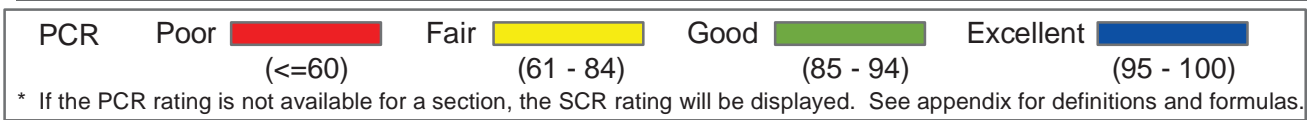
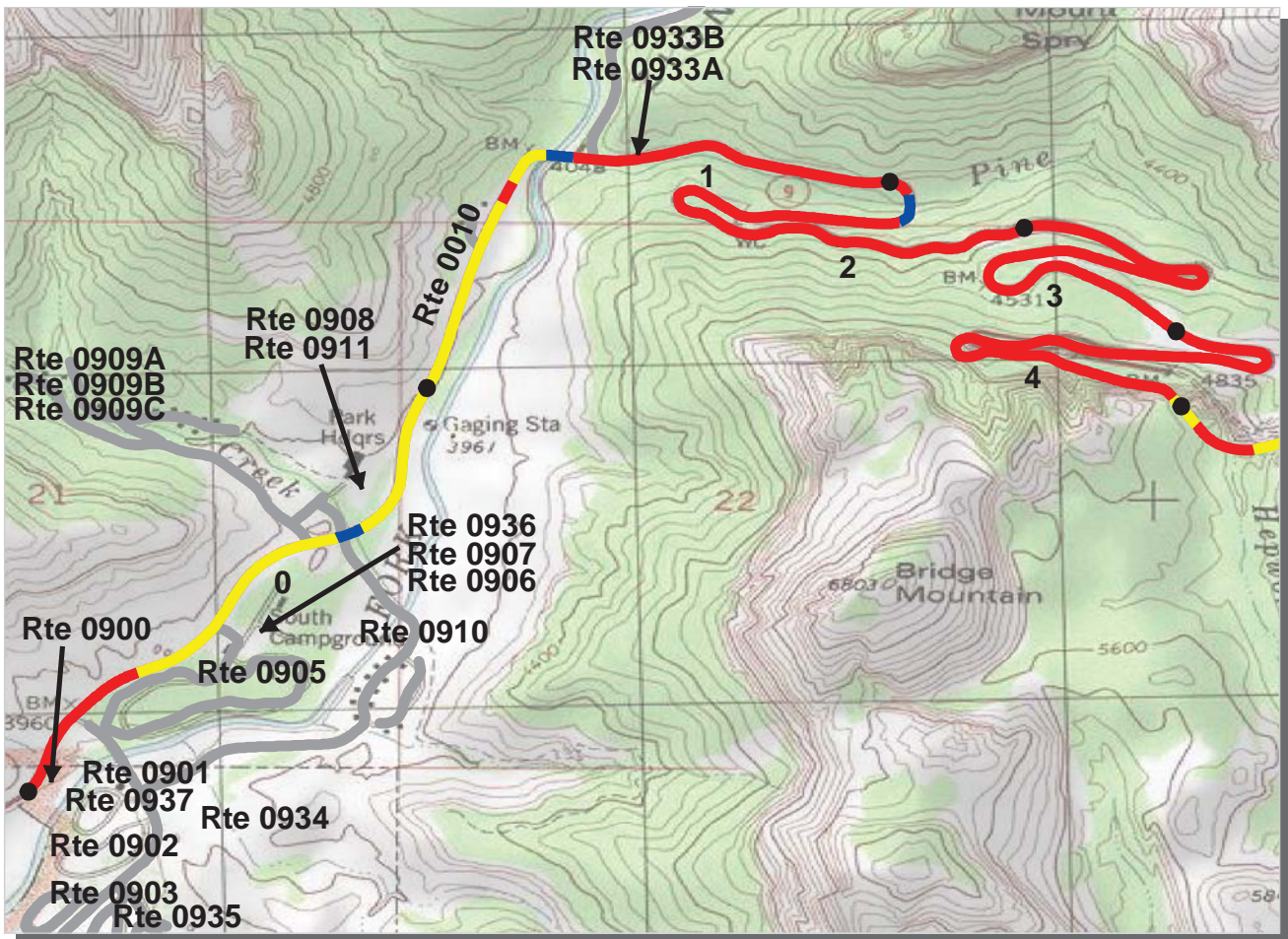
Surface Type Abbreviations:

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

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

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

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



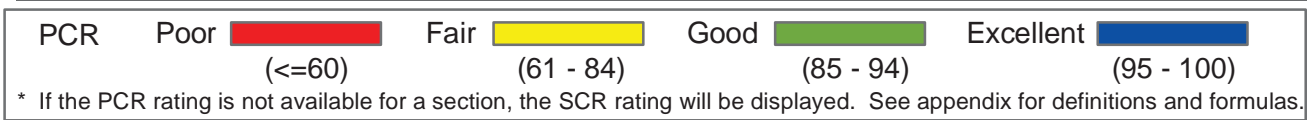
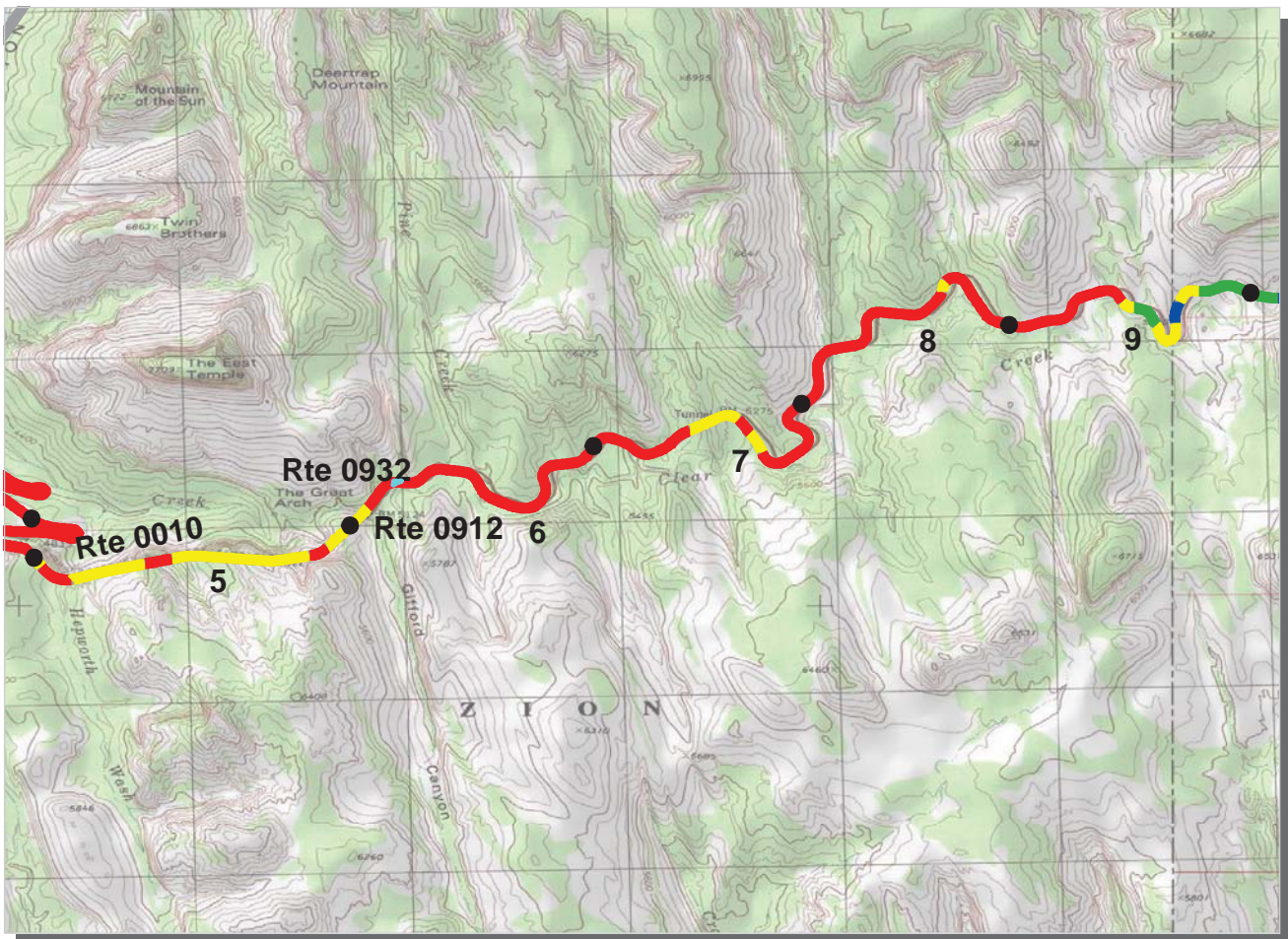
Intermountain Region
ZION : Zion National Park

ROUTE: 0010 Zion-Mt Carmel Highway **TOTAL LENGTH: 12.07 Miles**

Section Number	0	1	2	3	4
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	3	2	2	2	2
Paved Width (ft)	23	27	25	25	25
Lane Width (ft)	10	13	12	12	12
Shoulder Width (ft)	0	4	0	0	0
Roadway Condition Information					
PCR (Pavement Condition Rating)	63	50	39	37	43
RCI (Roughness Condition Index)	82	74	56	54	56
SCR (Surface Condition Rating)	55	33	27	26	35
Alligator Cracking Index	100	99	98	98	99
Rutting Index	58	47	46	46	49
Patching Index	100	100	99	100	100
Transverse Cracking Index	97	89	89	89	92
Longitudinal Cracking Index	98	92	90	90	93
Shoulder Condition Rating	N/A	GOOD	N/A	N/A	N/A
Drainage Condition Rating	GOOD	GOOD	GOOD	GOOD	GOOD

ROUTE: 0010 Zion-Mt Carmel Highway

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



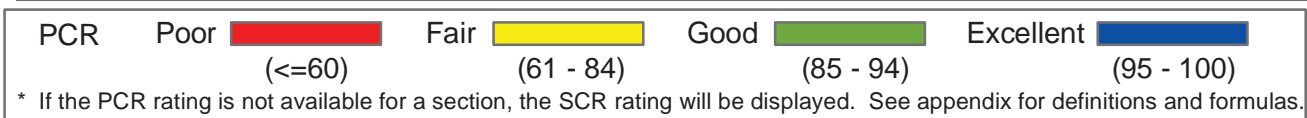
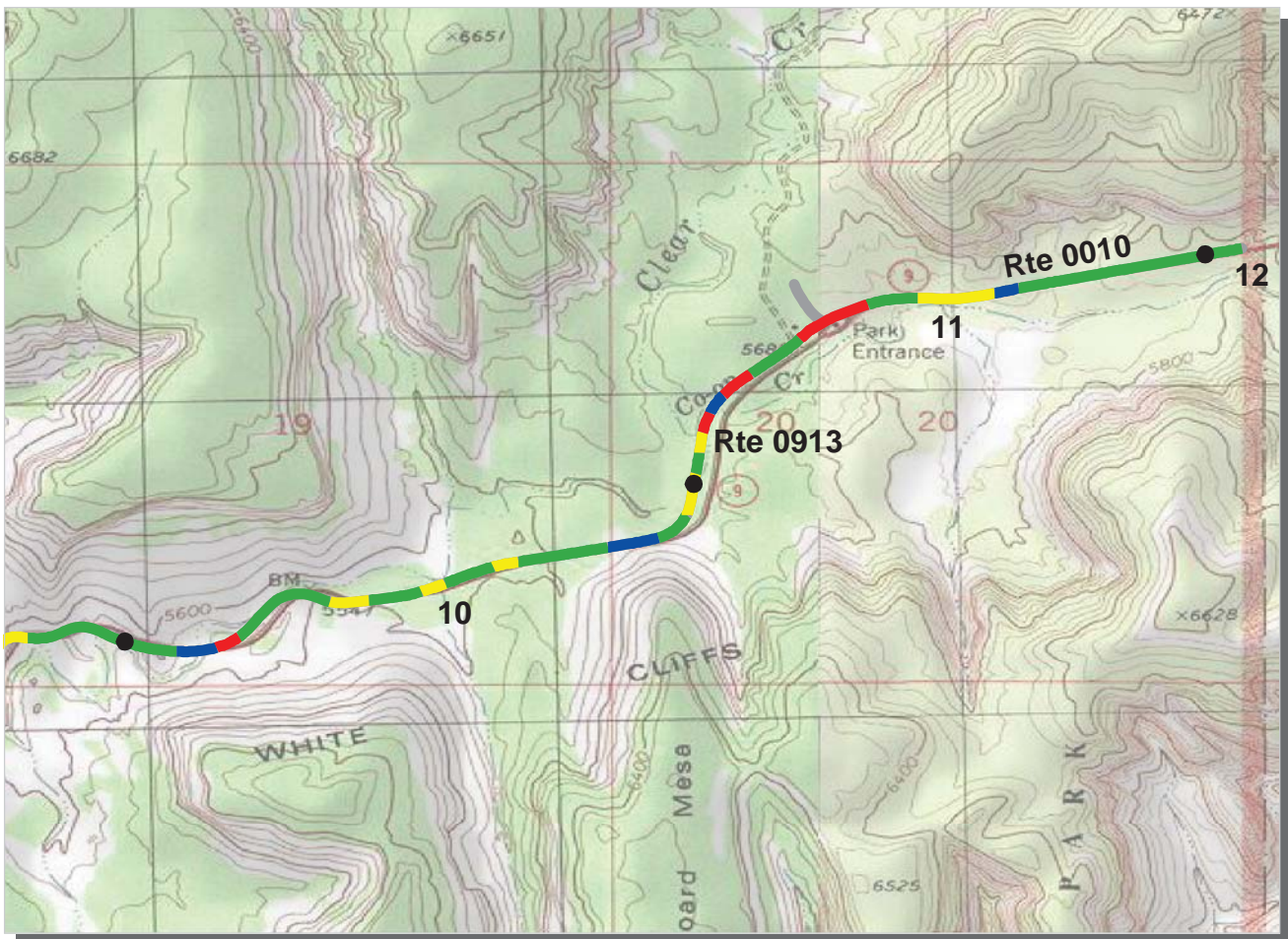
Intermountain Region
ZION : Zion National Park

ROUTE: 0010 Zion-Mt Carmel Highway **TOTAL LENGTH: 12.07 Miles**

Section Number	5	6	7	8	9
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	26	26	23	27	23
Lane Width (ft)	12	12	10	13	10
Shoulder Width (ft)	0	0	0	0	0
Roadway Condition Information					
PCR (Pavement Condition Rating)	64	39	42	38	67
RCI (Roughness Condition Index)	39	56	64	64	72
SCR (Surface Condition Rating)	82	26	29	21	63
Alligator Cracking Index	100	83	89	86	96
Rutting Index	82	65	57	63	79
Patching Index	100	99	98	100	100
Transverse Cracking Index	100	84	86	79	91
Longitudinal Cracking Index	100	87	90	86	96
Shoulder Condition Rating	N/A	N/A	N/A	N/A	N/A
Drainage Condition Rating	GOOD	GOOD	GOOD	GOOD	GOOD

ROUTE: 0010 Zion-Mt Carmel Highway

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



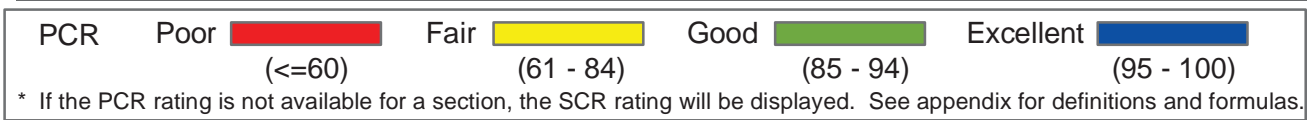
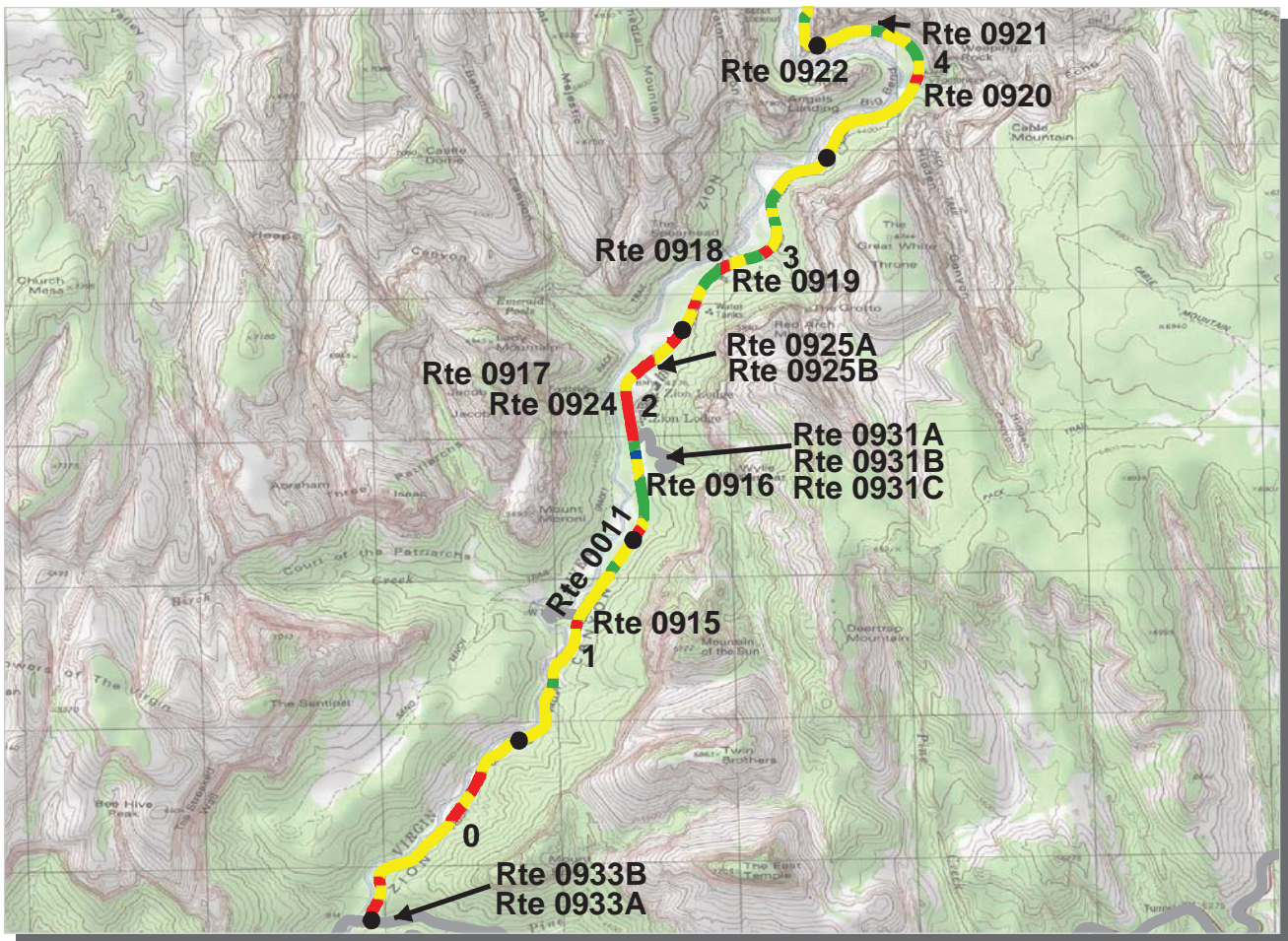
Intermountain Region
ZION : Zion National Park

ROUTE: 0010 Zion-Mt Carmel Highway **TOTAL LENGTH: 12.07 Miles**

Section Number	10	11	12		
Section Length (mi)	1.00	1.00	0.07		
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2	2		
Paved Width (ft)	25	25	24		
Lane Width (ft)	11	11	11		
Shoulder Width (ft)	0	0	0		
Roadway Condition Information					
PCR (Pavement Condition Rating)	85	76	87		
RCI (Roughness Condition Index)	85	76	82		
SCR (Surface Condition Rating)	85	75	91		
Alligator Cracking Index	99	97	100		
Rutting Index	88	83	91		
Patching Index	100	100	100		
Transverse Cracking Index	96	95	99		
Longitudinal Cracking Index	99	97	100		
Shoulder Condition Rating	N/A	N/A	N/A		
Drainage Condition Rating	GOOD	GOOD	GOOD		

ROUTE: 0010 Zion-Mt Carmel Highway

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



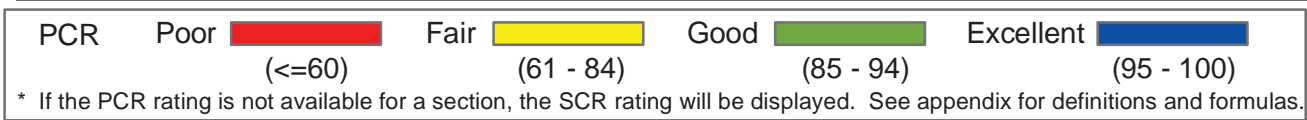
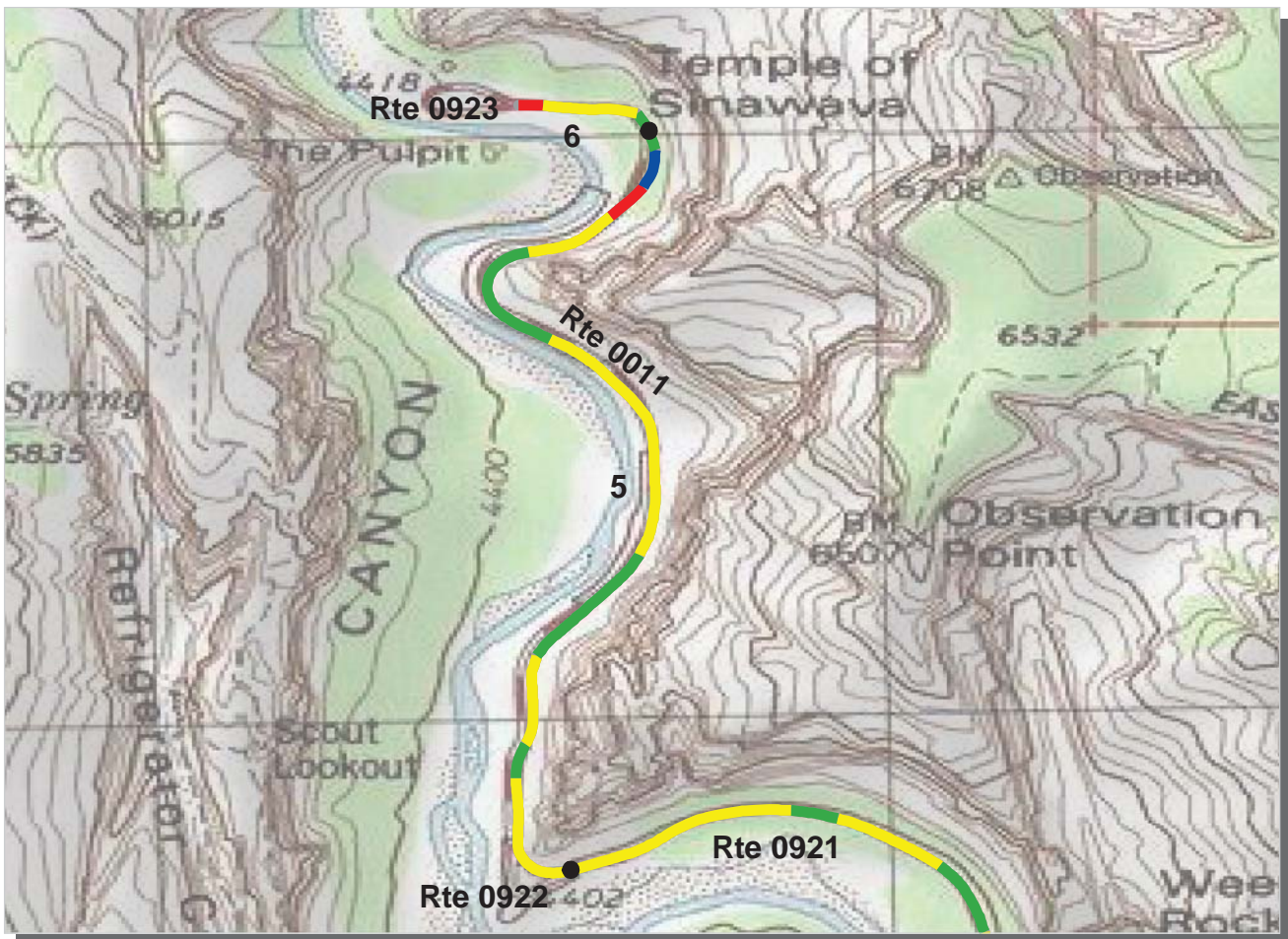
Intermountain Region
ZION : Zion National Park

ROUTE: 0011 Valley Floor Highway **TOTAL LENGTH: 6.14 Miles**

Section Number	0	1	2	3	4
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	25	24	22	21	21
Lane Width (ft)	13	11	12	10	10
Shoulder Width (ft)	0	4	2	0	0
Roadway Condition Information					
PCR (Pavement Condition Rating)	64	66	68	77	75
RCI (Roughness Condition Index)	72	69	76	74	81
SCR (Surface Condition Rating)	61	65	62	79	72
Alligator Cracking Index	99	99	99	100	99
Rutting Index	70	78	73	83	78
Patching Index	99	99	99	99	100
Transverse Cracking Index	94	92	93	96	94
Longitudinal Cracking Index	96	96	96	99	98
Shoulder Condition Rating	N/A	GOOD	GOOD	N/A	N/A
Drainage Condition Rating	GOOD	GOOD	GOOD	GOOD	GOOD

ROUTE: 0011 Valley Floor Highway

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



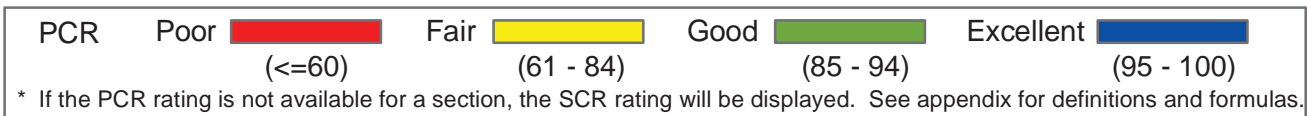
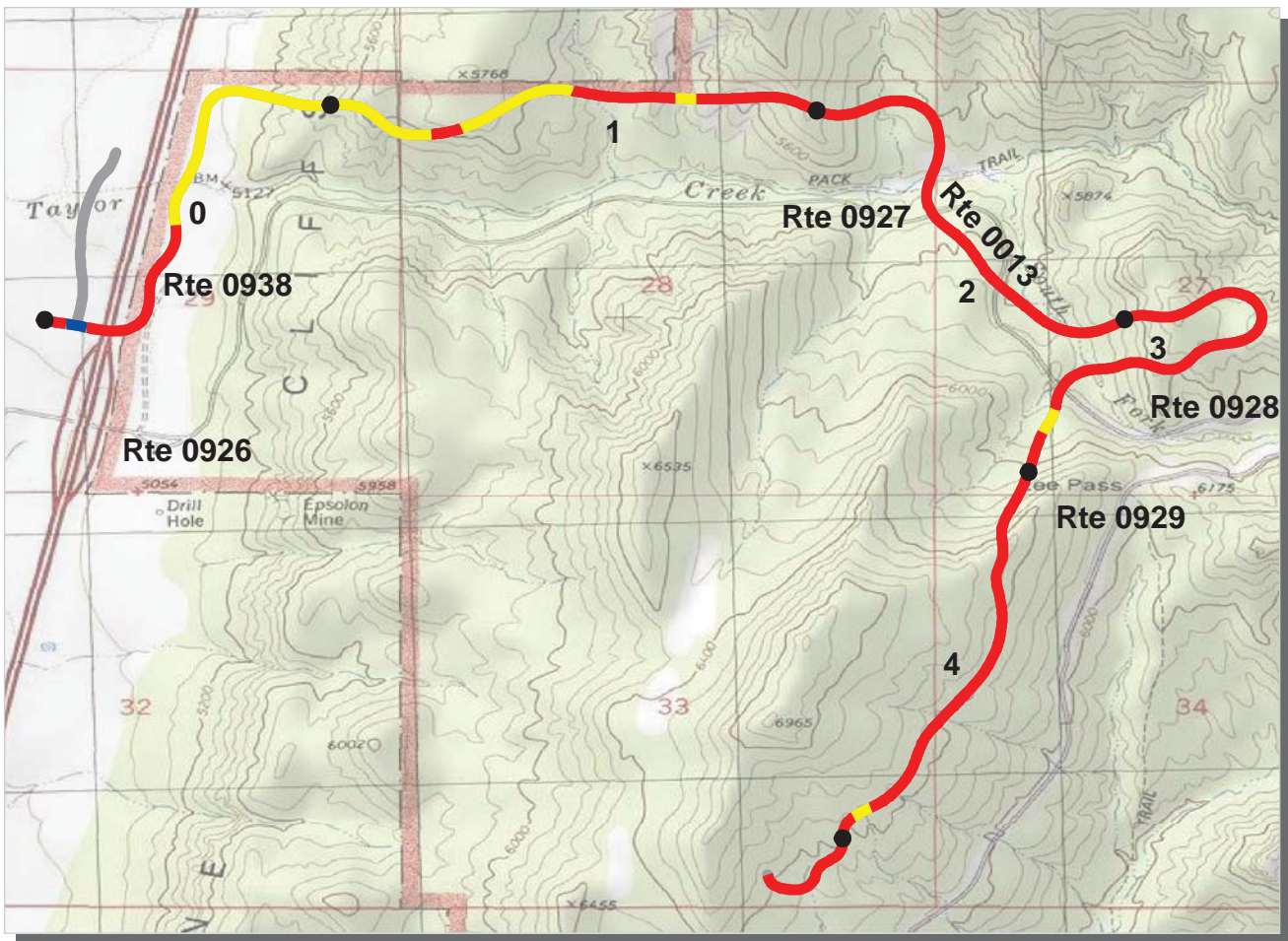
Intermountain Region
ZION : Zion National Park

ROUTE: 0011 Valley Floor Highway **TOTAL LENGTH: 6.14 Miles**

Section Number	5	6			
Section Length (mi)	1.00	0.14			
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2			
Paved Width (ft)	24	20			
Lane Width (ft)	10	11			
Shoulder Width (ft)	0	0			
Roadway Condition Information					
PCR (Pavement Condition Rating)	78	71			
RCI (Roughness Condition Index)	78	69			
SCR (Surface Condition Rating)	77	72			
Alligator Cracking Index	99	100			
Rutting Index	80	72			
Patching Index	98	100			
Transverse Cracking Index	98	100			
Longitudinal Cracking Index	99	99			
Shoulder Condition Rating	N/A	N/A			
Drainage Condition Rating	GOOD	GOOD			

ROUTE: 0011 Valley Floor Highway

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



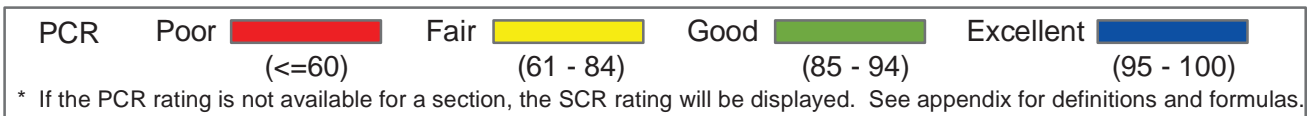
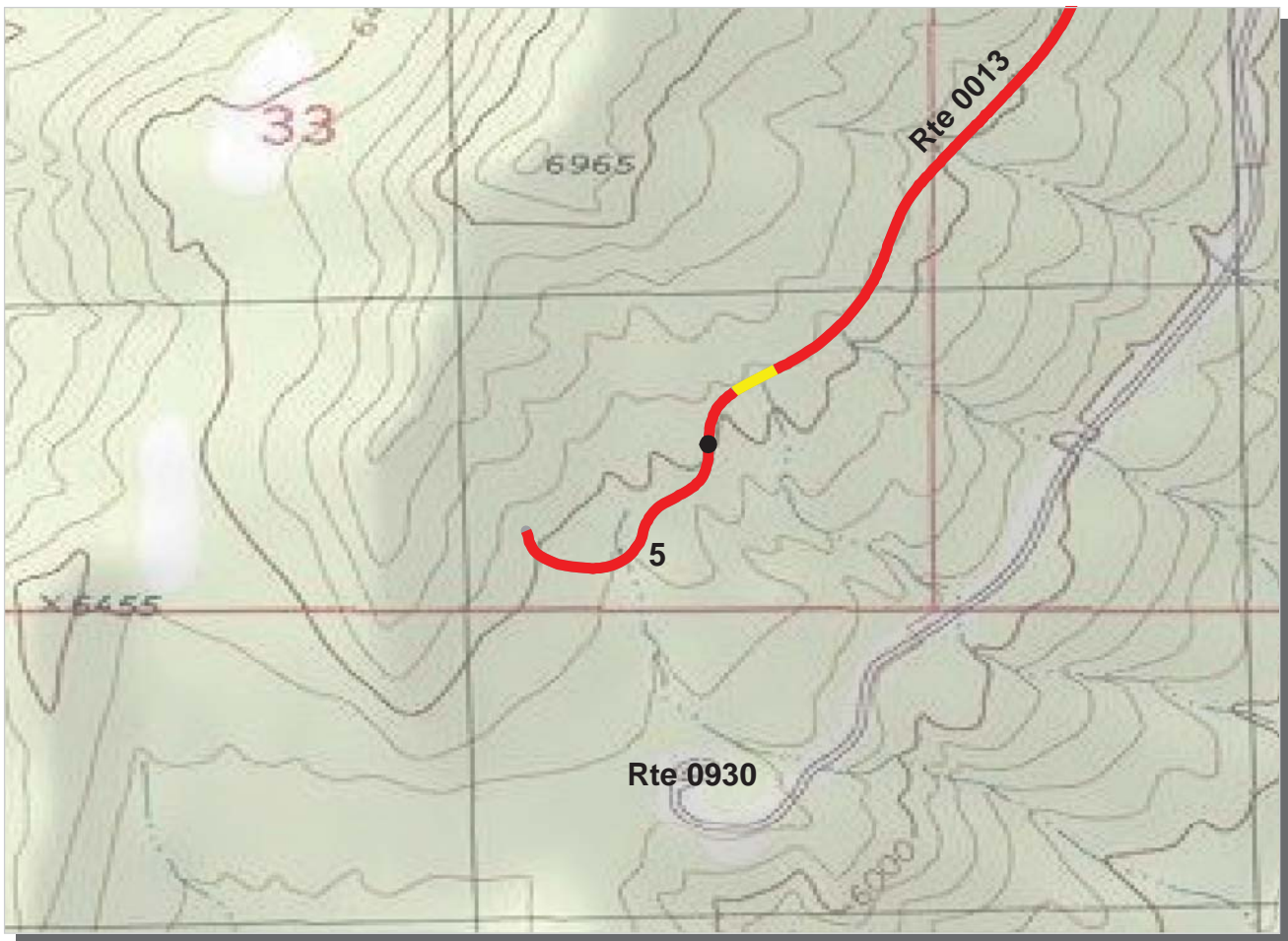
Intermountain Region
ZION : Zion National Park

ROUTE: 0013 Kolob Canyon Road **TOTAL LENGTH: 5.25 Miles**

Section Number	0	1	2	3	4
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	31	24	25	25	24
Lane Width (ft)	13	11	13	12	12
Shoulder Width (ft)	0	0	0	0	0
Roadway Condition Information					
PCR (Pavement Condition Rating)	64	59	48	46	49
RCI (Roughness Condition Index)	80	81	72	69	80
SCR (Surface Condition Rating)	55	45	33	31	28
Alligator Cracking Index	99	100	99	98	98
Rutting Index	64	56	52	53	56
Patching Index	100	100	92	99	100
Transverse Cracking Index	93	93	94	91	88
Longitudinal Cracking Index	97	95	93	88	84
Shoulder Condition Rating	N/A	N/A	N/A	N/A	N/A
Drainage Condition Rating	POOR	POOR	POOR	POOR	POOR

ROUTE: 0013 Kolob Canyon Road

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



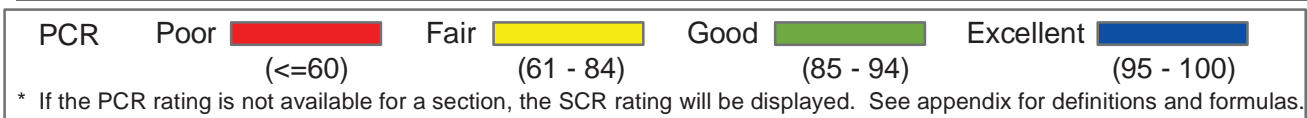
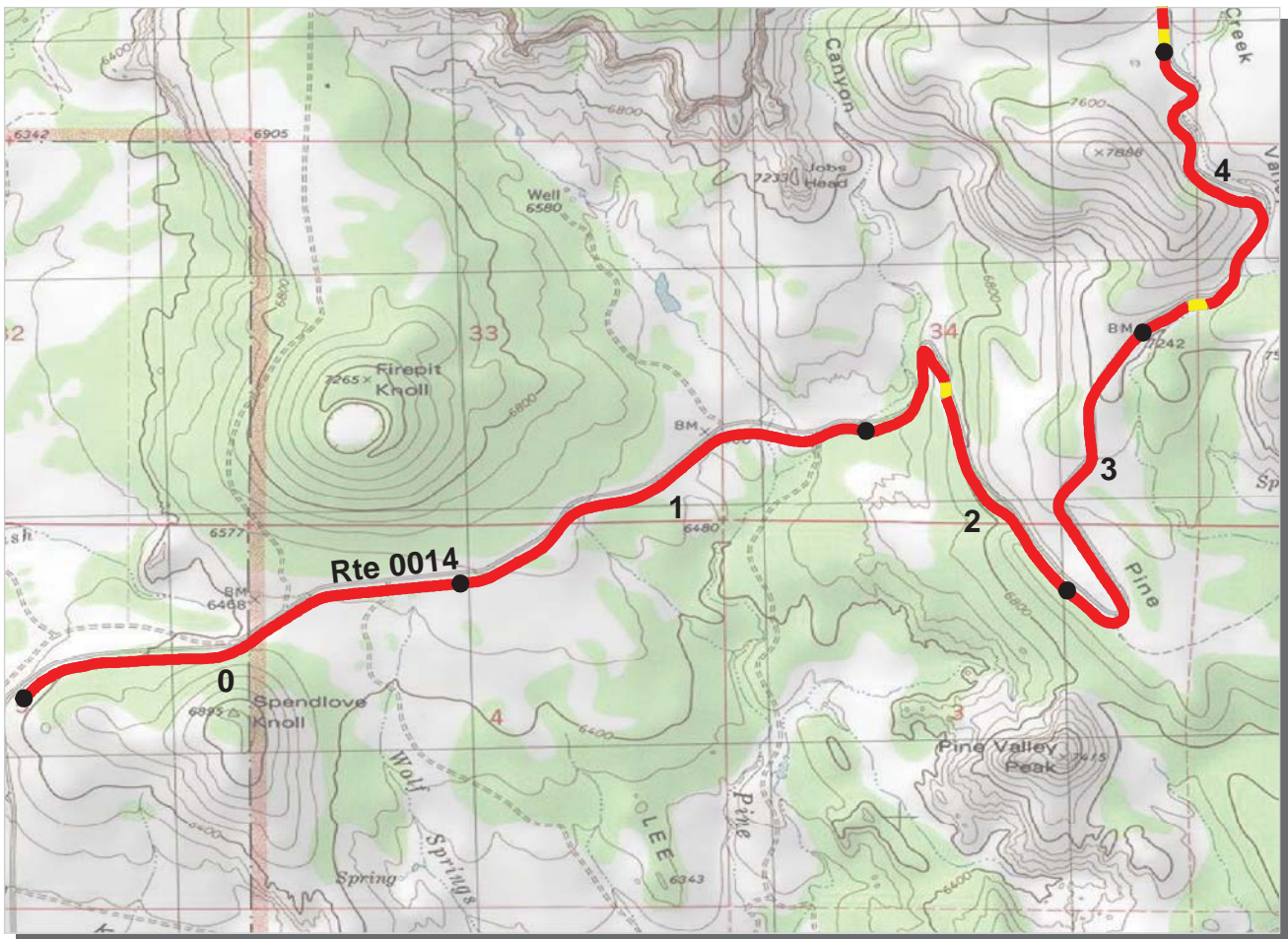
Intermountain Region
ZION : Zion National Park

ROUTE: 0013 Kolob Canyon Road **TOTAL LENGTH: 5.25 Miles**

Section Number	5				
Section Length (mi)	0.25				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	24				
Lane Width (ft)	13				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	45				
RCI (Roughness Condition Index)	64				
SCR (Surface Condition Rating)	33				
Alligator Cracking Index	99				
Rutting Index	54				
Patching Index	100				
Transverse Cracking Index	91				
Longitudinal Cracking Index	87				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	POOR				

ROUTE: 0013 Kolob Canyon Road

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



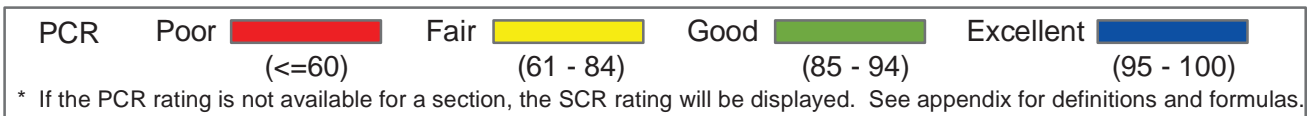
Intermountain Region
ZION : Zion National Park

ROUTE: 0014 Kolob Terrace Road North **TOTAL LENGTH: 5.80 Miles**

Section Number	0	1	2	3	4
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	38	19	20	19	19
Lane Width (ft)	9	9	10	10	10
Shoulder Width (ft)	0	0	0	0	0
Roadway Condition Information					
PCR (Pavement Condition Rating)	39	43	48	48	53
RCI (Roughness Condition Index)	70	70	72	66	69
SCR (Surface Condition Rating)	20	26	37	36	42
Alligator Cracking Index	89	94	99	98	98
Rutting Index	47	50	48	47	49
Patching Index	100	100	100	100	100
Transverse Cracking Index	85	85	91	92	95
Longitudinal Cracking Index	90	92	97	98	97
Shoulder Condition Rating	N/A	N/A	N/A	N/A	N/A
Drainage Condition Rating	POOR	POOR	POOR	POOR	POOR

ROUTE: 0014 Kolob Terrace Road North

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



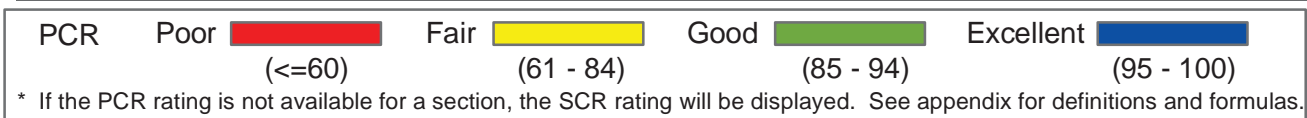
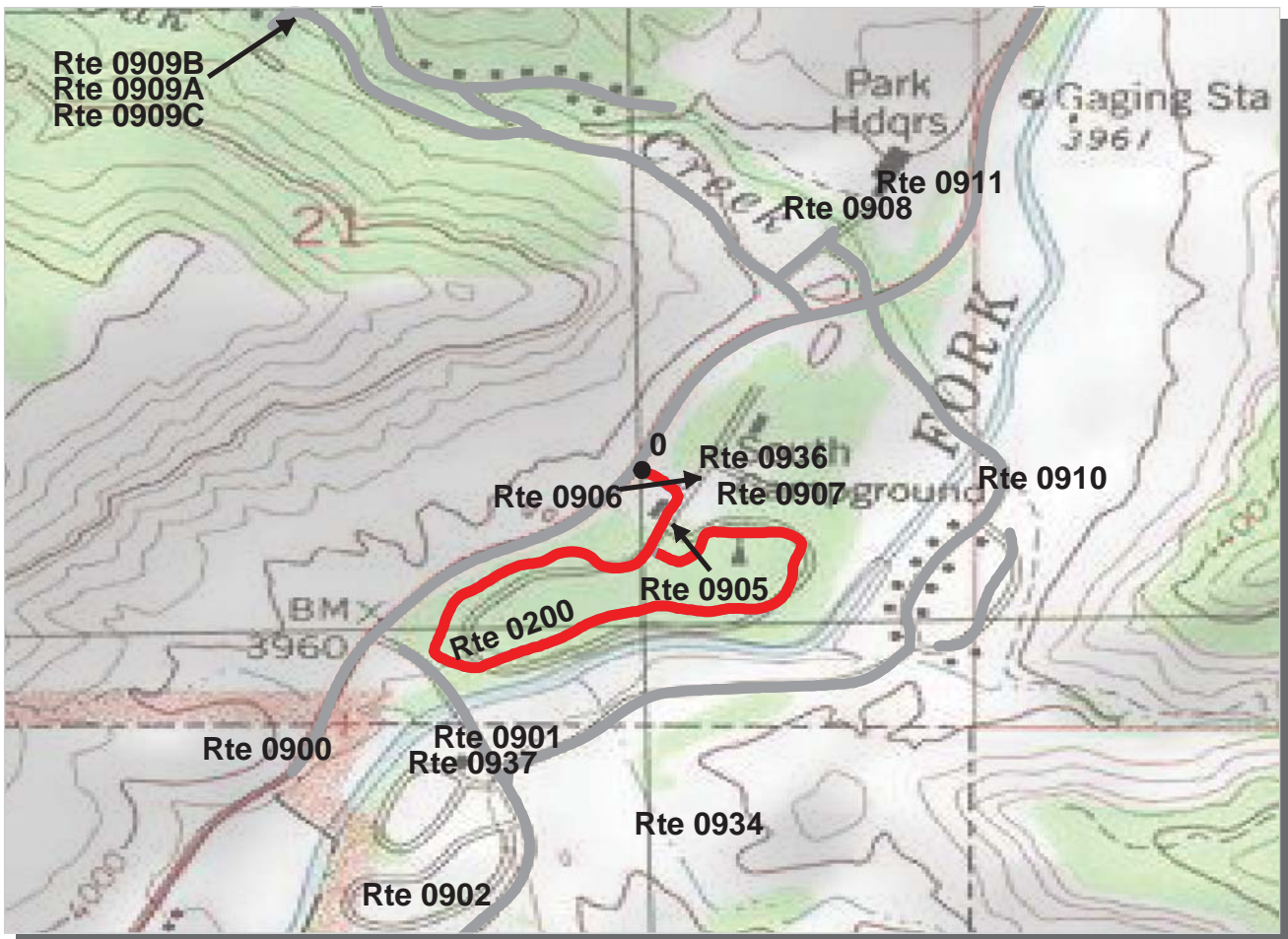
Intermountain Region
ZION : Zion National Park

ROUTE: 0014 Kolob Terrace Road North **TOTAL LENGTH: 5.80 Miles**

Section Number	5			
Section Length (mi)	0.80			
AADT	**			
SADT	**			
ADT Date	**			
Cross Section Information				
Number of Lanes	2			
Paved Width (ft)	20			
Lane Width (ft)	9			
Shoulder Width (ft)	0			
Roadway Condition Information				
PCR (Pavement Condition Rating)	51			
RCI (Roughness Condition Index)	68			
SCR (Surface Condition Rating)	41			
Alligator Cracking Index	98			
Rutting Index	45			
Patching Index	100			
Transverse Cracking Index	98			
Longitudinal Cracking Index	98			
Shoulder Condition Rating	N/A			
Drainage Condition Rating	POOR			

ROUTE: 0014 Kolob Terrace Road North

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



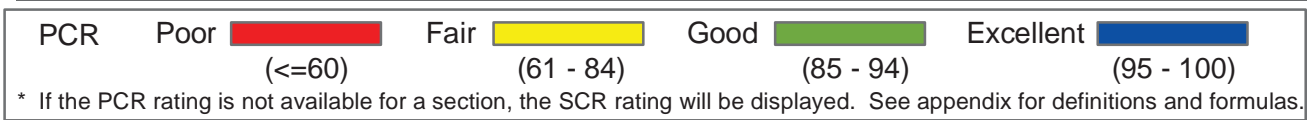
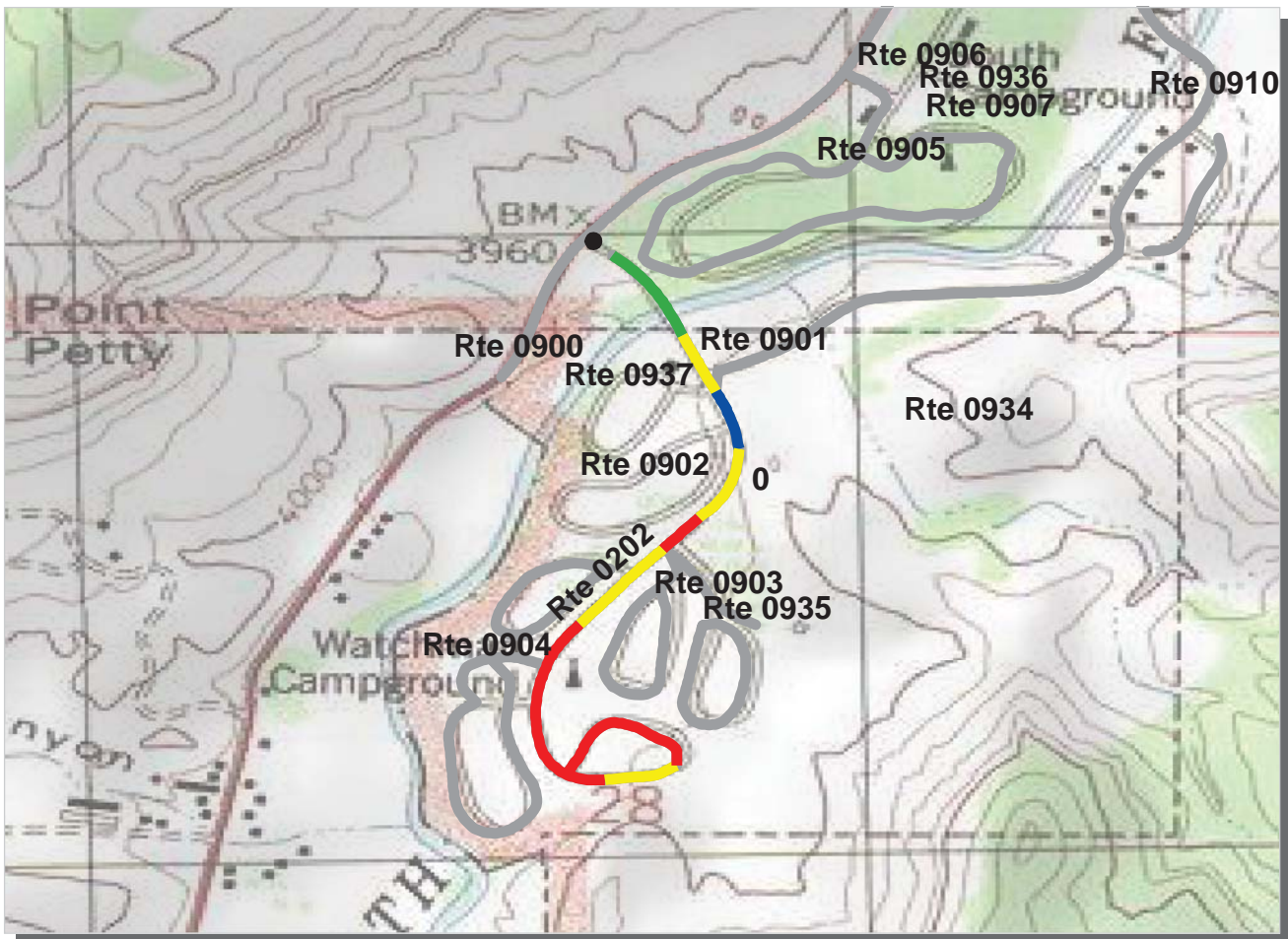
Intermountain Region
ZION : Zion National Park

ROUTE: 0200 South Campground Outer Loop **TOTAL LENGTH: 0.86 Miles**

Section Number	0			
Section Length (mi)	0.86			
AADT	**			
SADT	**			
ADT Date	**			
Cross Section Information				
Number of Lanes	2			
Paved Width (ft)	38			
Lane Width (ft)	11			
Shoulder Width (ft)	0			
Roadway Condition Information				
PCR (Pavement Condition Rating)	30			
RCI (Roughness Condition Index)	NC			
SCR (Surface Condition Rating)	30			
Alligator Cracking Index	93			
Rutting Index	48			
Patching Index	98			
Transverse Cracking Index	89			
Longitudinal Cracking Index	94			
Shoulder Condition Rating	N/A			
Drainage Condition Rating	POOR			

ROUTE: 0200 South Campground Outer Loop

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



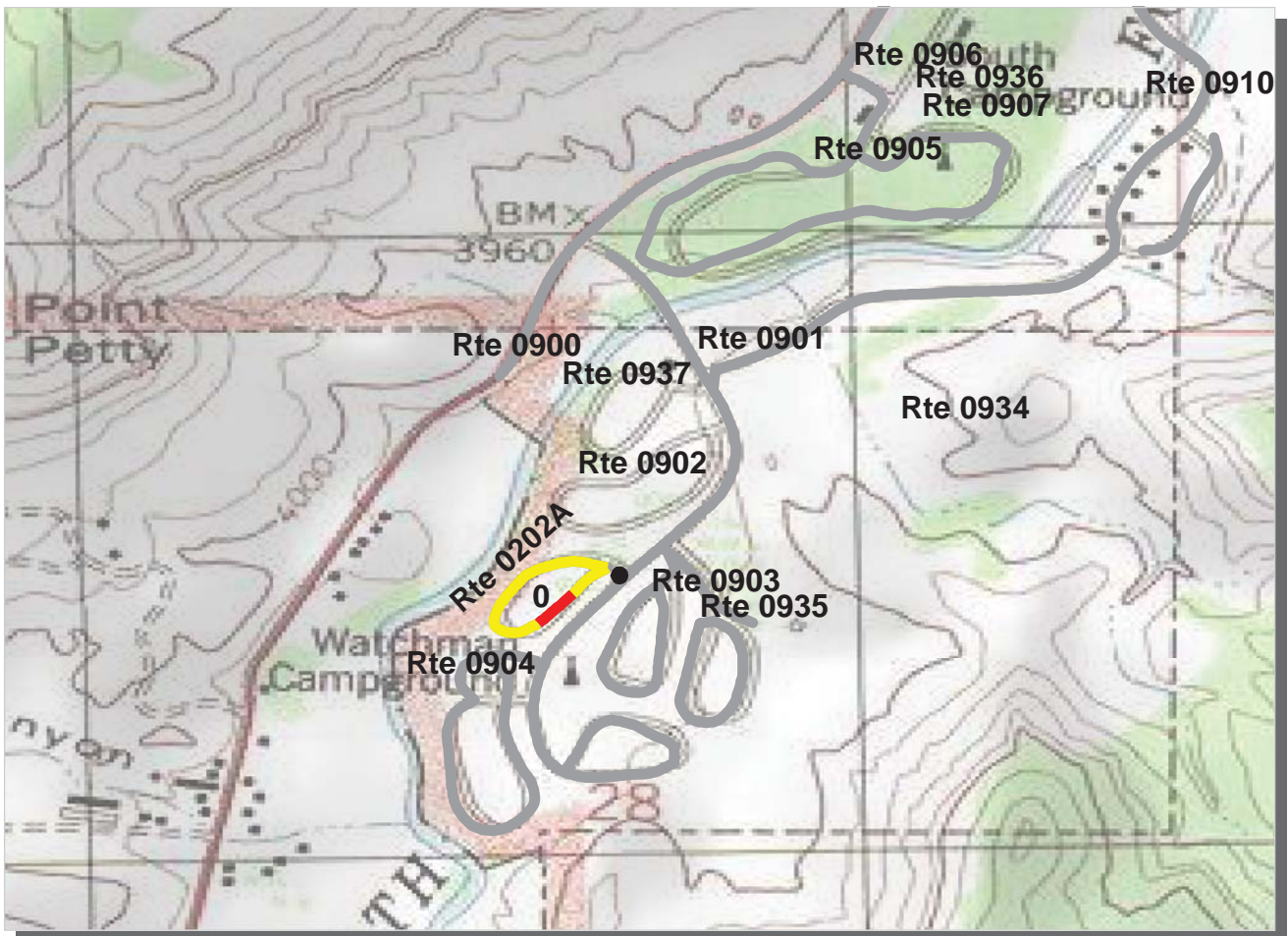
Intermountain Region
ZION : Zion National Park

ROUTE: 0202 Watchman Campground Road **TOTAL LENGTH: 0.87 Miles**

Section Number	0				
Section Length (mi)	0.87				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	24				
Lane Width (ft)	13				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	58				
RCI (Roughness Condition Index)	58				
SCR (Surface Condition Rating)	58				
Alligator Cracking Index	96				
Rutting Index	68				
Patching Index	99				
Transverse Cracking Index	95				
Longitudinal Cracking Index	97				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0202 Watchman Campground Road

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



PCR Poor ■ Fair ■ Good ■ Excellent ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

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

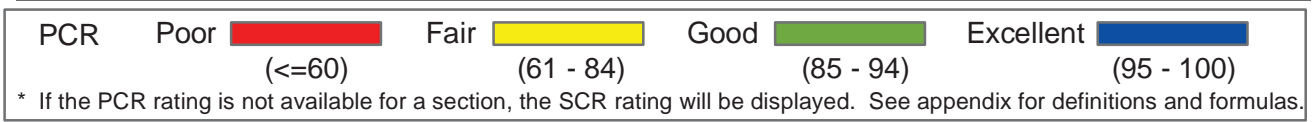
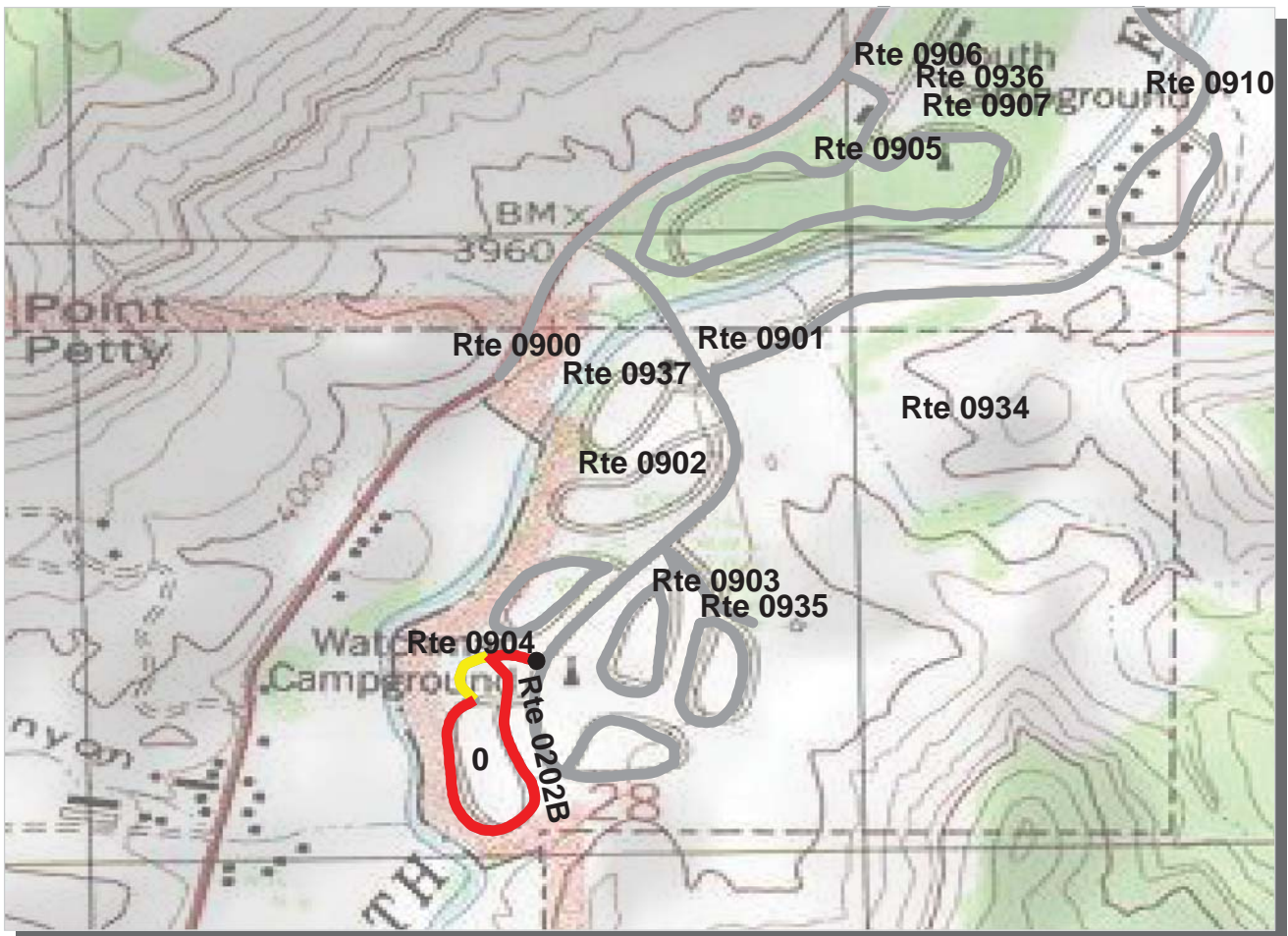
Intermountain Region
ZION : Zion National Park

ROUTE: 0202A Watchman Campground Loop A **TOTAL LENGTH: 0.27 Miles**

Section Number	0				
Section Length (mi)	0.27				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	24				
Lane Width (ft)	12				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	71				
RCI (Roughness Condition Index)	53				
SCR (Surface Condition Rating)	75				
Alligator Cracking Index	100				
Rutting Index	76				
Patching Index	100				
Transverse Cracking Index	99				
Longitudinal Cracking Index	100				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0202A Watchman Campground Loop A

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



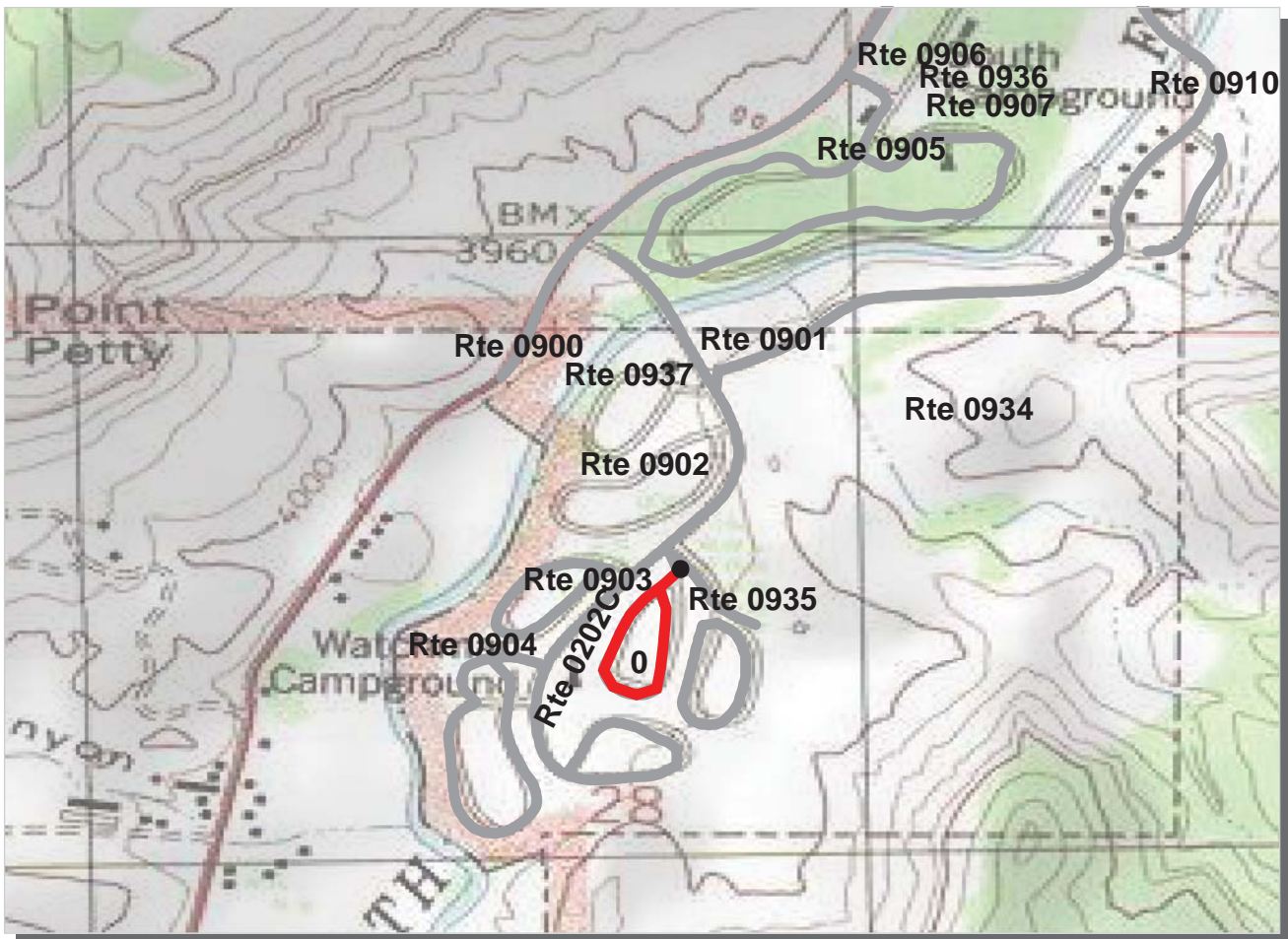
Intermountain Region
ZION : Zion National Park

ROUTE: 0202B Watchman Campground Loop B **TOTAL LENGTH: 0.46 Miles**

Section Number	0				
Section Length (mi)	0.46				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	23				
Lane Width (ft)	11				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	47				
RCI (Roughness Condition Index)	36				
SCR (Surface Condition Rating)	47				
Alligator Cracking Index	100				
Rutting Index	54				
Patching Index	99				
Transverse Cracking Index	95				
Longitudinal Cracking Index	97				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0202B Watchman Campground Loop B

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



PCR Poor ■ Fair ■ Good ■ Excellent ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

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

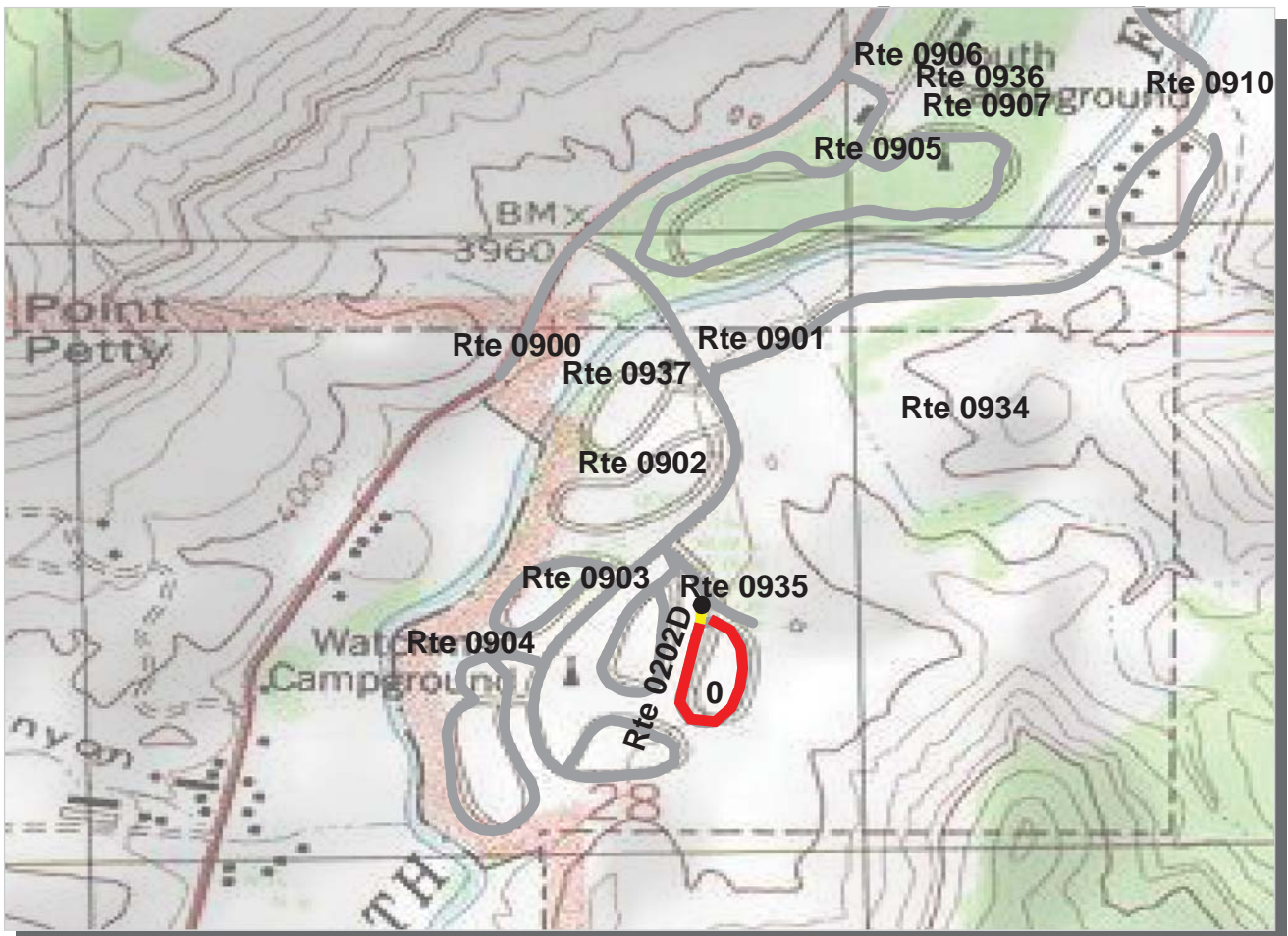
Intermountain Region
ZION : Zion National Park

ROUTE: 0202C Watchman Campground Loop C **TOTAL LENGTH: 0.29 Miles**

Section Number	0				
Section Length (mi)	0.29				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	21				
Lane Width (ft)	9				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	30				
RCI (Roughness Condition Index)	50				
SCR (Surface Condition Rating)	29				
Alligator Cracking Index	94				
Rutting Index	46				
Patching Index	100				
Transverse Cracking Index	93				
Longitudinal Cracking Index	93				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0202C Watchman Campground Loop C

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



PCR	Poor	 	Fair	 	Good	 	Excellent	
		(≤60)		(61 - 84)		(85 - 94)		(95 - 100)

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

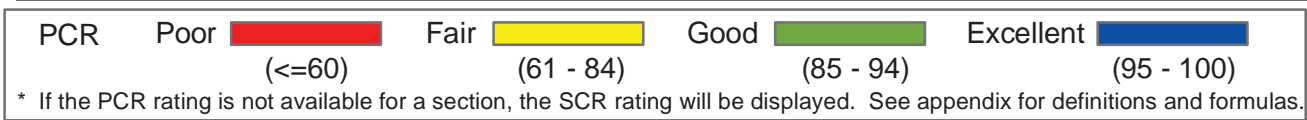
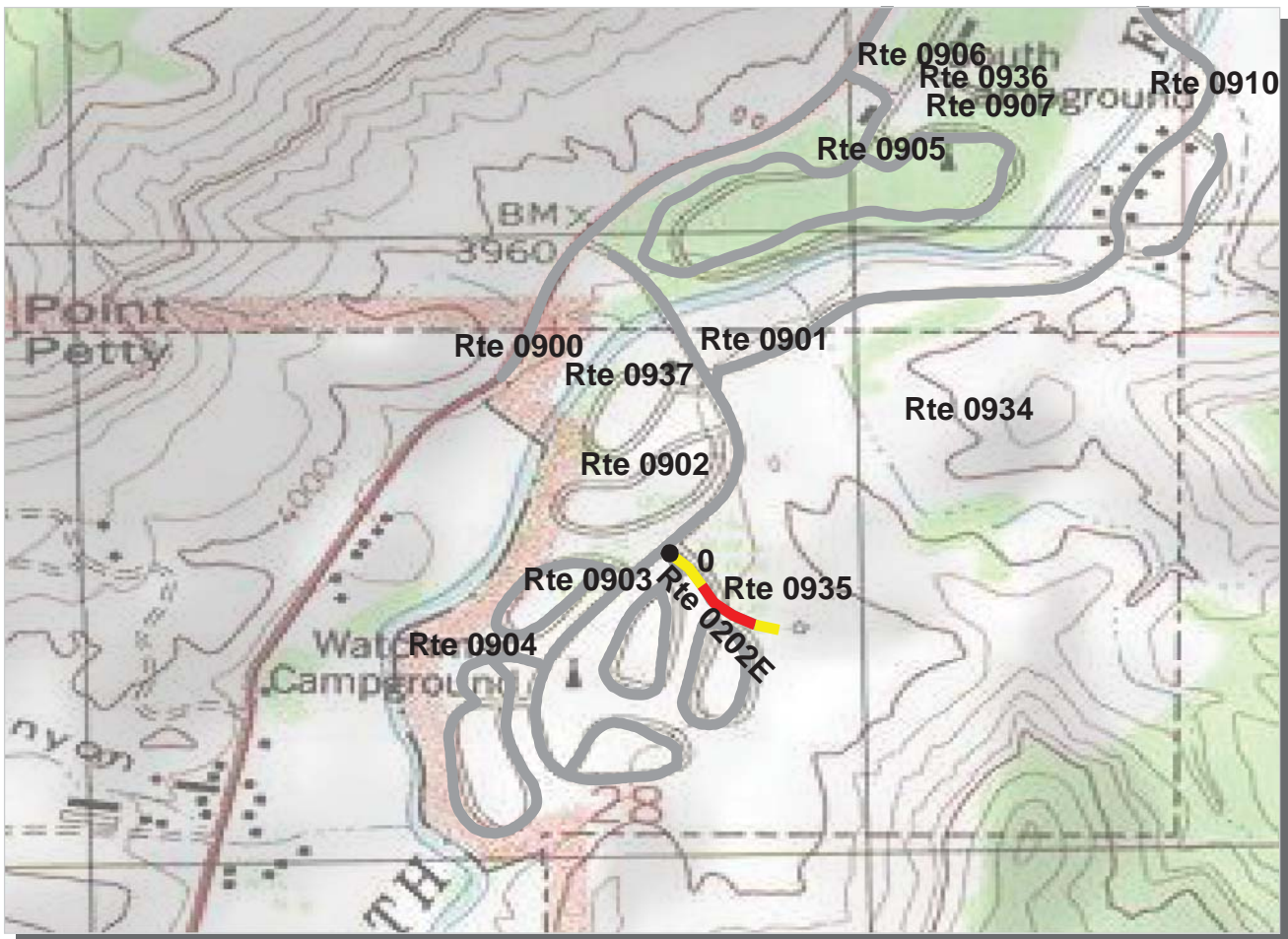
Intermountain Region
ZION : Zion National Park

ROUTE: 0202D Watchman Campground Loop D **TOTAL LENGTH: 0.27 Miles**

Section Number	0				
Section Length (mi)	0.27				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	25				
Lane Width (ft)	13				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	28				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	28				
Alligator Cracking Index	80				
Rutting Index	58				
Patching Index	97				
Transverse Cracking Index	91				
Longitudinal Cracking Index	92				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0202D Watchman Campground Loop D

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



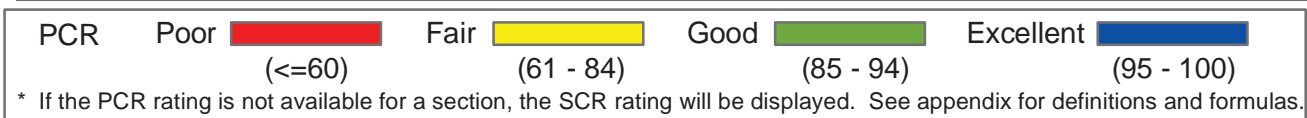
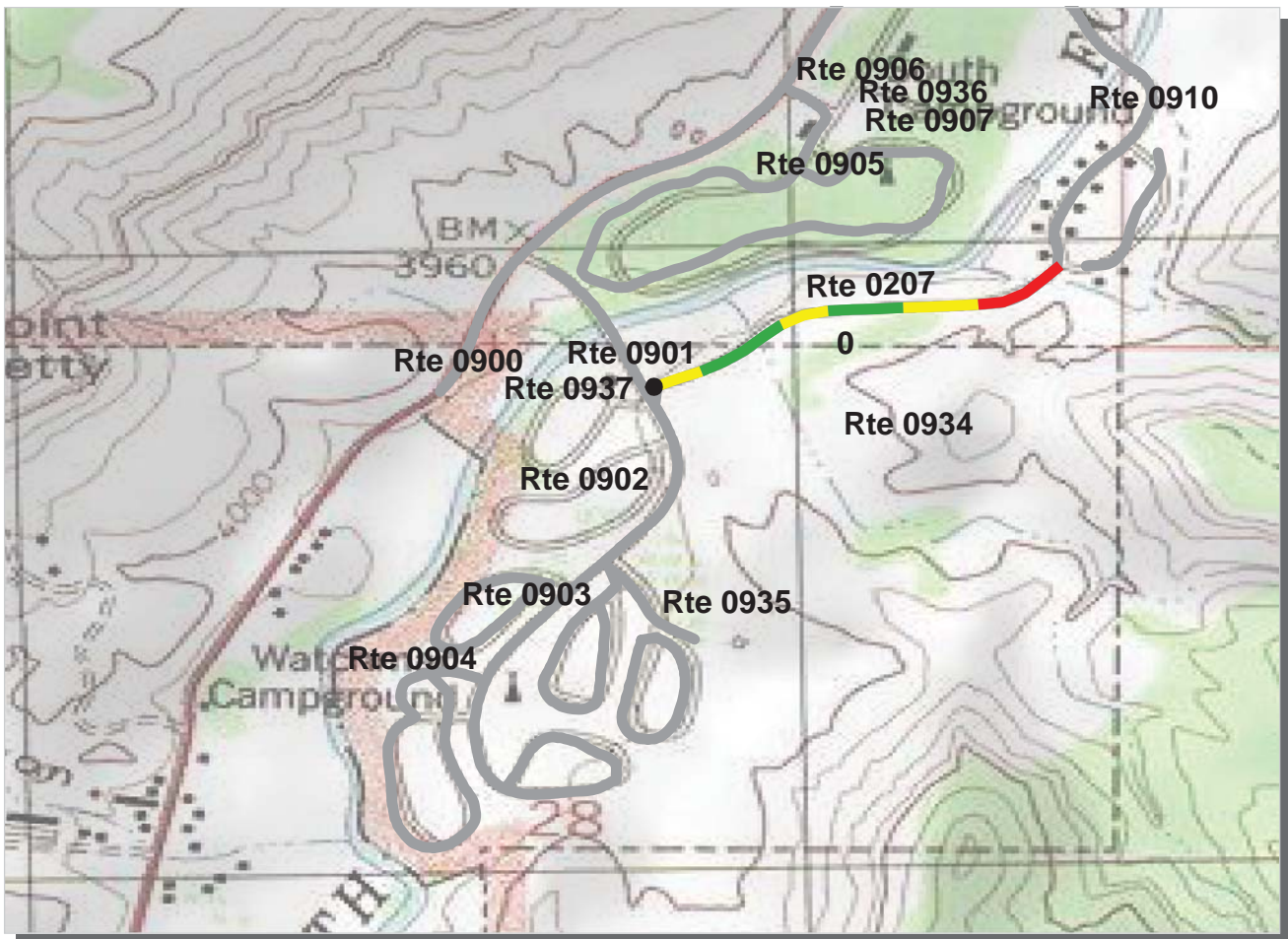
Intermountain Region
ZION : Zion National Park

ROUTE: 0202E Watchman Campground Loops C & D Maintenance Access **TOTAL LENGTH: 0.13 Miles**

Section Number	0				
Section Length (mi)	0.13				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	20				
Lane Width (ft)	10				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	65				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	65				
Alligator Cracking Index	100				
Rutting Index	65				
Patching Index	100				
Transverse Cracking Index	100				
Longitudinal Cracking Index	100				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0202E Watchman Campground Loops C & D Maintenance Access

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



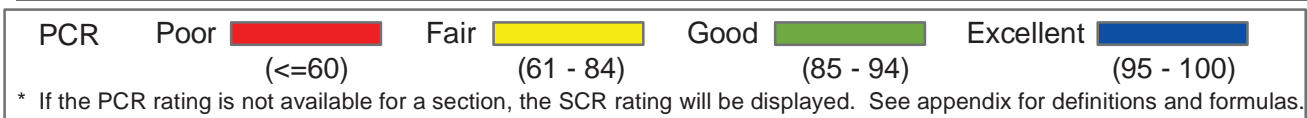
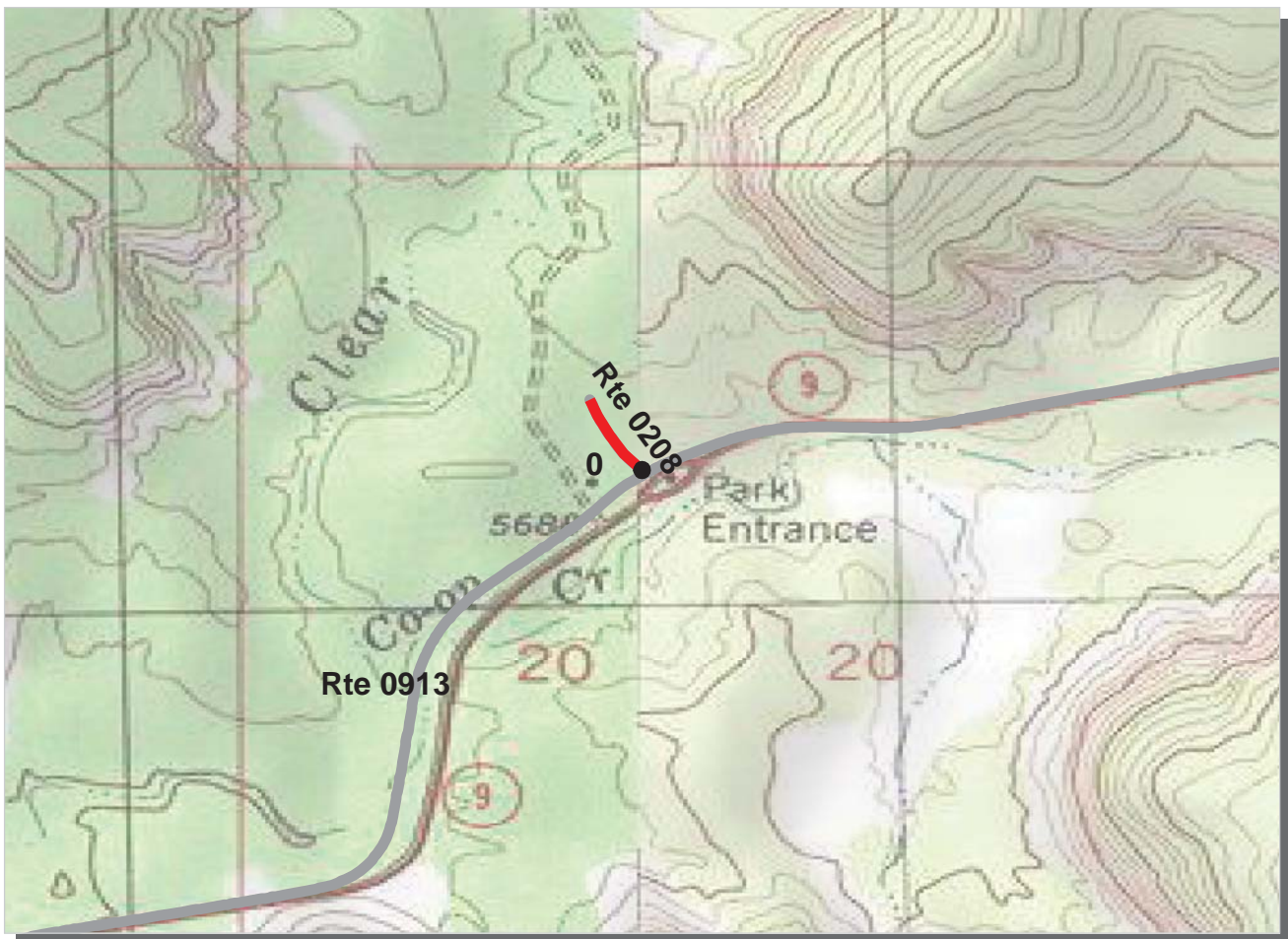
Intermountain Region
ZION : Zion National Park

ROUTE: 0207 Watchman Trail Road **TOTAL LENGTH: 0.37 Miles**

Section Number	0				
Section Length (mi)	0.37				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	21				
Lane Width (ft)	10				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	74				
RCI (Roughness Condition Index)	65				
SCR (Surface Condition Rating)	78				
Alligator Cracking Index	99				
Rutting Index	80				
Patching Index	100				
Transverse Cracking Index	99				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0207 Watchman Trail Road

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



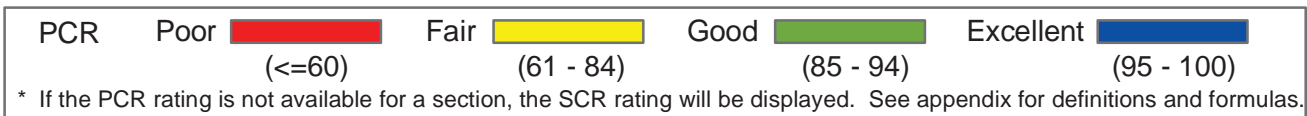
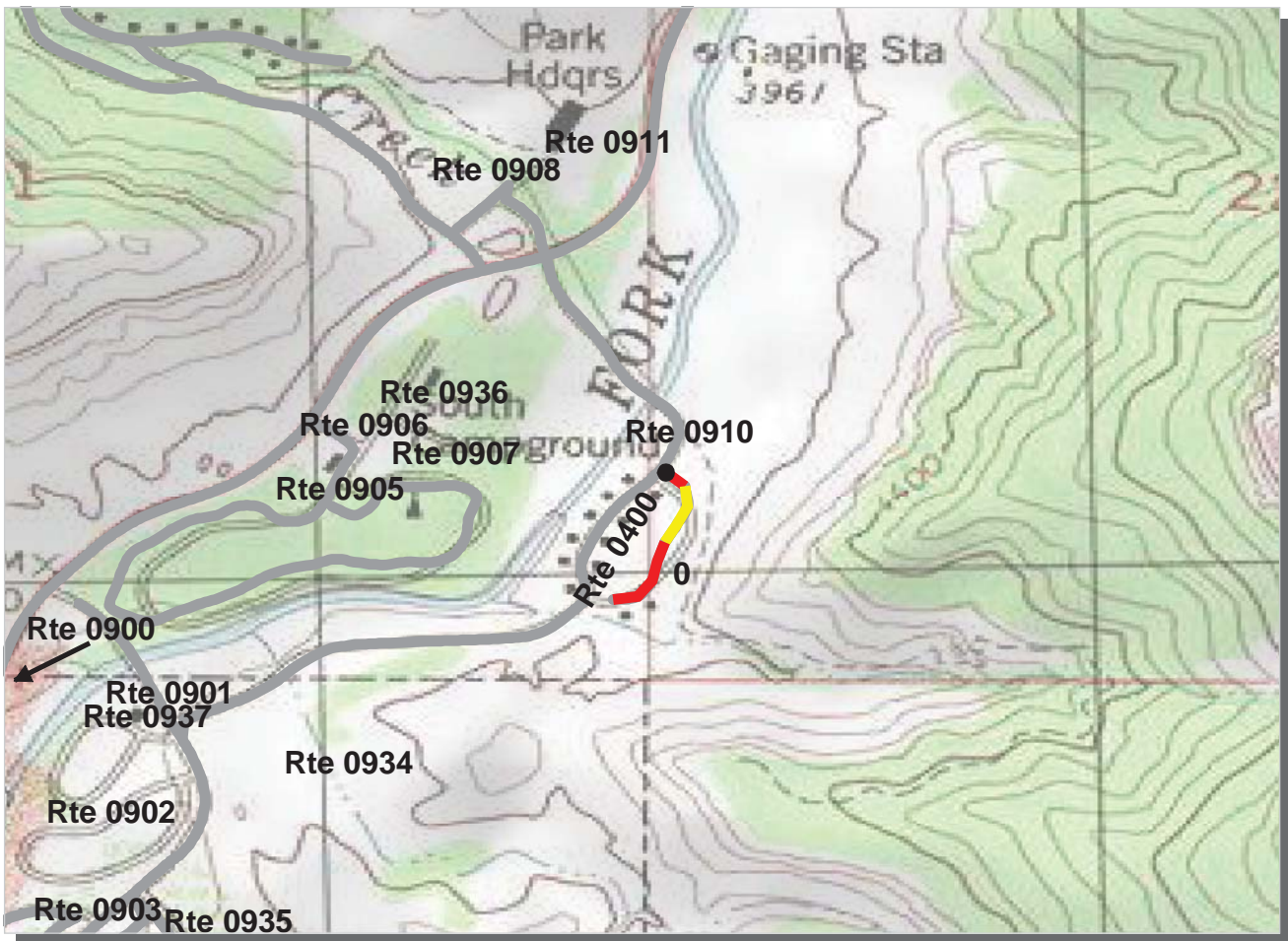
Intermountain Region
ZION : Zion National Park

ROUTE: 0208 East Rim Trail Access **TOTAL LENGTH: 0.09 Miles**

Section Number	0				
Section Length (mi)	0.09				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	13				
Lane Width (ft)	13				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	32				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	32				
Alligator Cracking Index	97				
Rutting Index	48				
Patching Index	100				
Transverse Cracking Index	92				
Longitudinal Cracking Index	93				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	POOR				

ROUTE: 0208 East Rim Trail Access

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



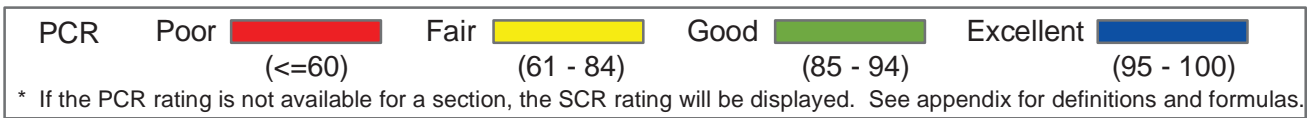
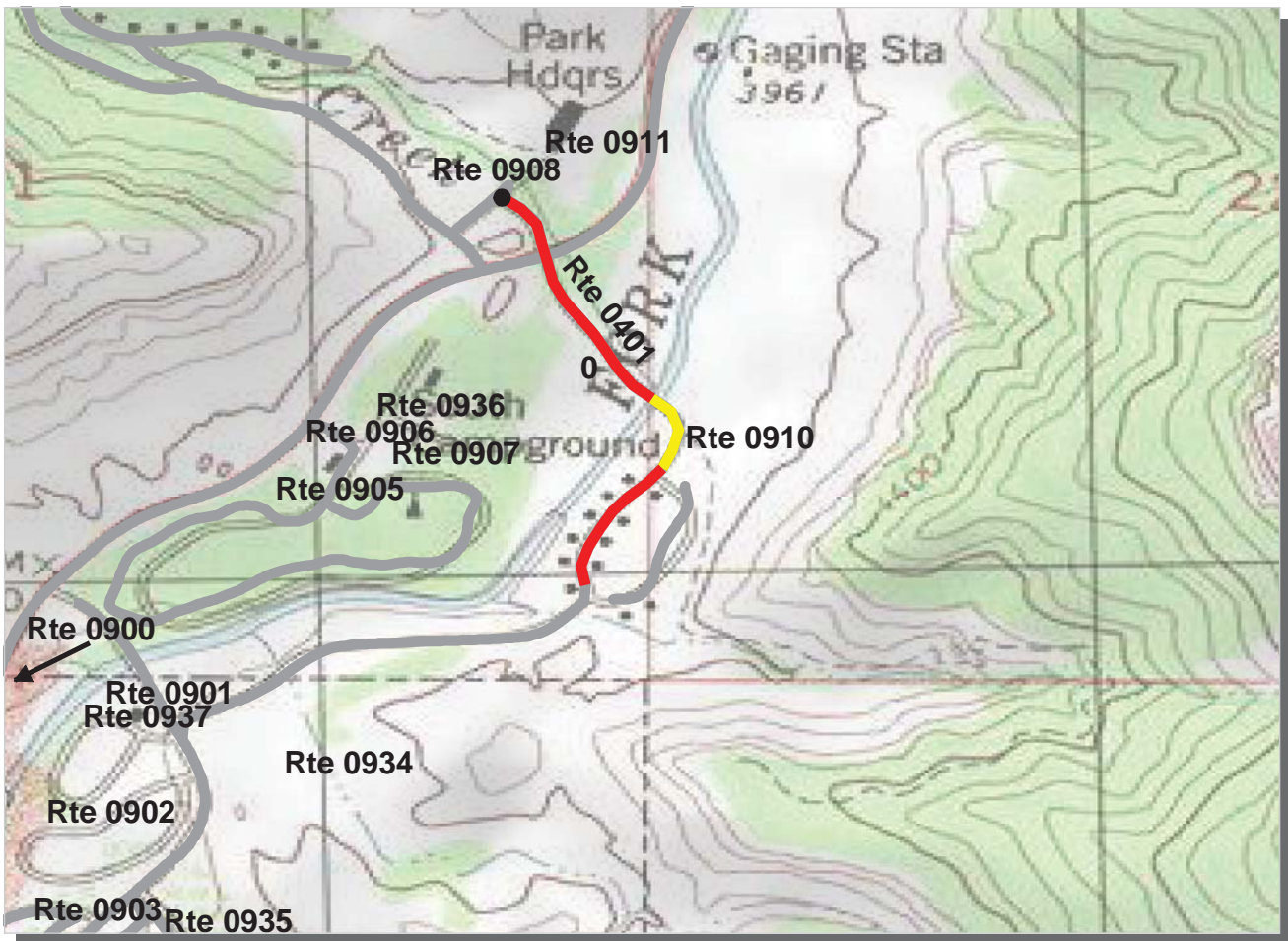
Intermountain Region
ZION : Zion National Park

ROUTE: 0400 Watchman Cutoff Road **TOTAL LENGTH: 0.18 Miles**

Section Number	0			
Section Length (mi)	0.18			
AADT	**			
SADT	**			
ADT Date	**			
Cross Section Information				
Number of Lanes	2			
Paved Width (ft)	19			
Lane Width (ft)	9			
Shoulder Width (ft)	0			
Roadway Condition Information				
PCR (Pavement Condition Rating)	50			
RCI (Roughness Condition Index)	86			
SCR (Surface Condition Rating)	49			
Alligator Cracking Index	100			
Rutting Index	59			
Patching Index	100			
Transverse Cracking Index	93			
Longitudinal Cracking Index	97			
Shoulder Condition Rating	N/A			
Drainage Condition Rating	POOR			

ROUTE: 0400 Watchman Cutoff Road

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



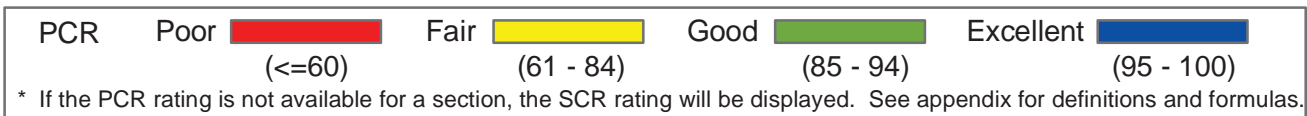
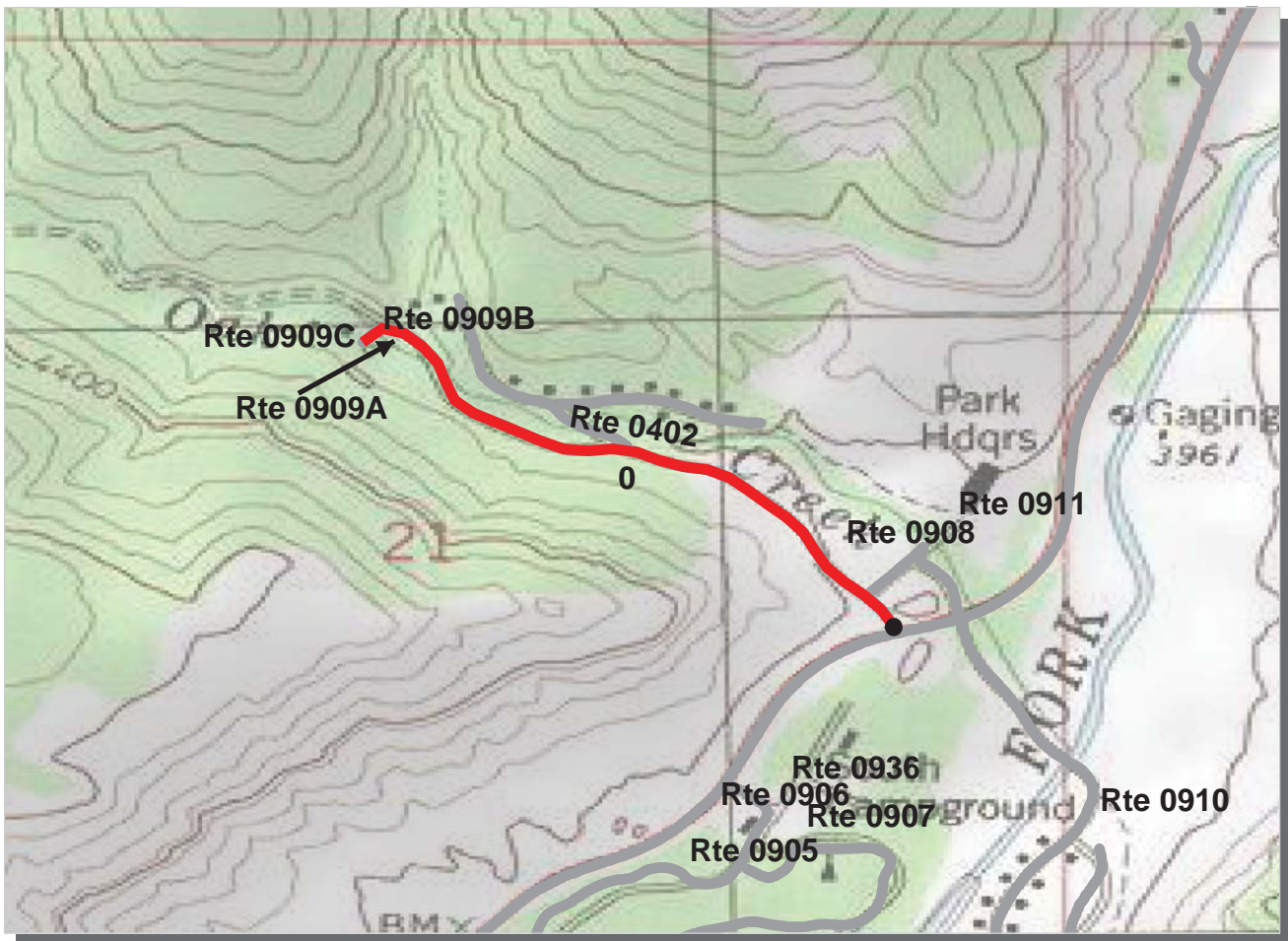
Intermountain Region
ZION : Zion National Park

ROUTE: 0401 Watchman Residence Road **TOTAL LENGTH: 0.48 Miles**

Section Number	0				
Section Length (mi)	0.48				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	22				
Lane Width (ft)	12				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	42				
RCI (Roughness Condition Index)	67				
SCR (Surface Condition Rating)	42				
Alligator Cracking Index	96				
Rutting Index	58				
Patching Index	99				
Transverse Cracking Index	89				
Longitudinal Cracking Index	95				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	POOR				

ROUTE: 0401 Watchman Residence Road

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



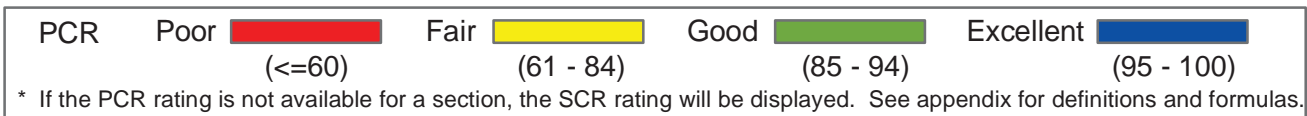
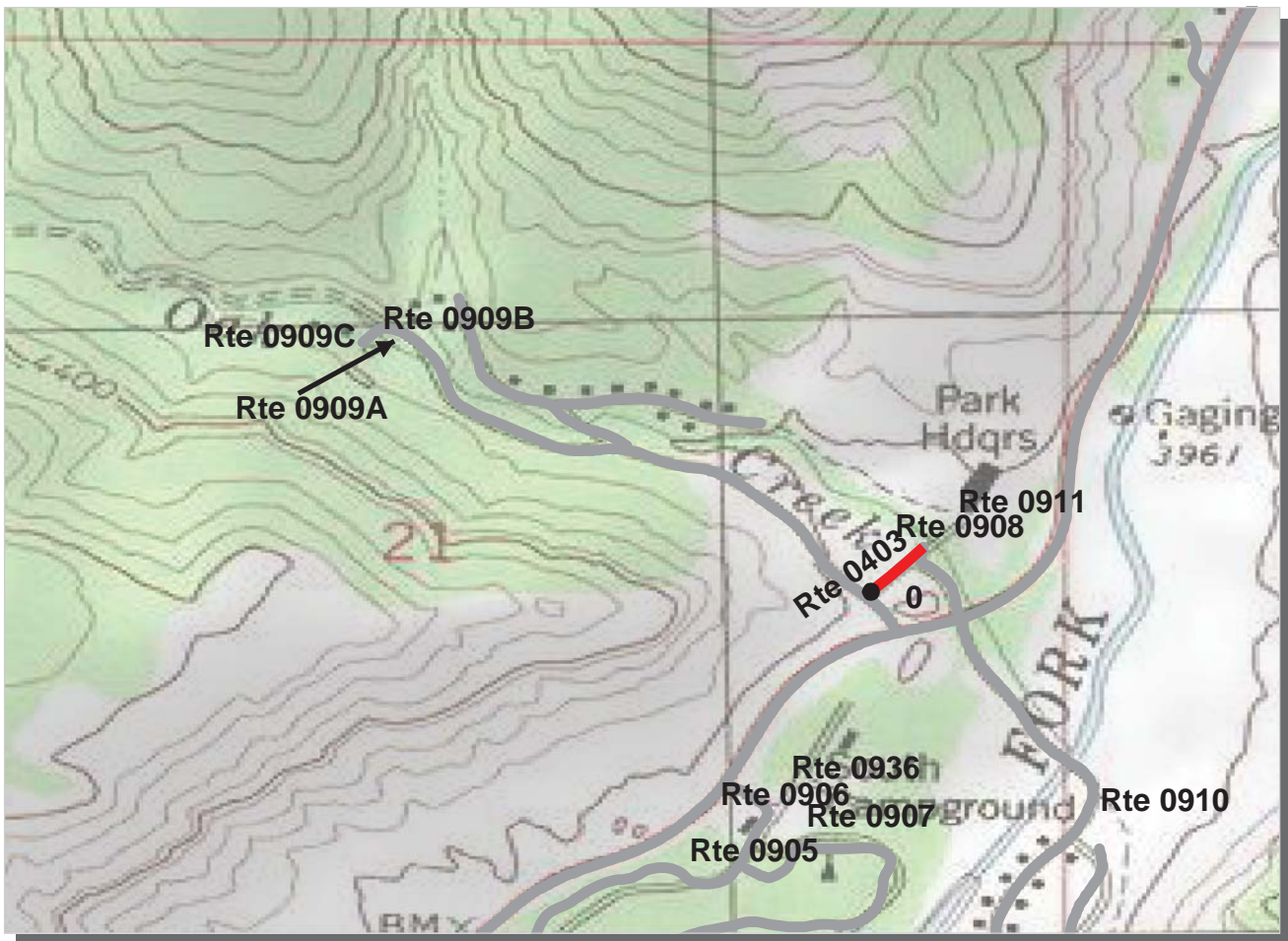
Intermountain Region
ZION : Zion National Park

ROUTE: 0402 Oak Creek Road **TOTAL LENGTH: 0.57 Miles**

Section Number	0				
Section Length (mi)	0.57				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	21				
Lane Width (ft)	12				
Shoulder Width (ft)	4				
Roadway Condition Information					
PCR (Pavement Condition Rating)	35				
RCI (Roughness Condition Index)	55				
SCR (Surface Condition Rating)	27				
Alligator Cracking Index	94				
Rutting Index	58				
Patching Index	99				
Transverse Cracking Index	84				
Longitudinal Cracking Index	89				
Shoulder Condition Rating	GOOD				
Drainage Condition Rating	GOOD				

ROUTE: 0402 Oak Creek Road

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



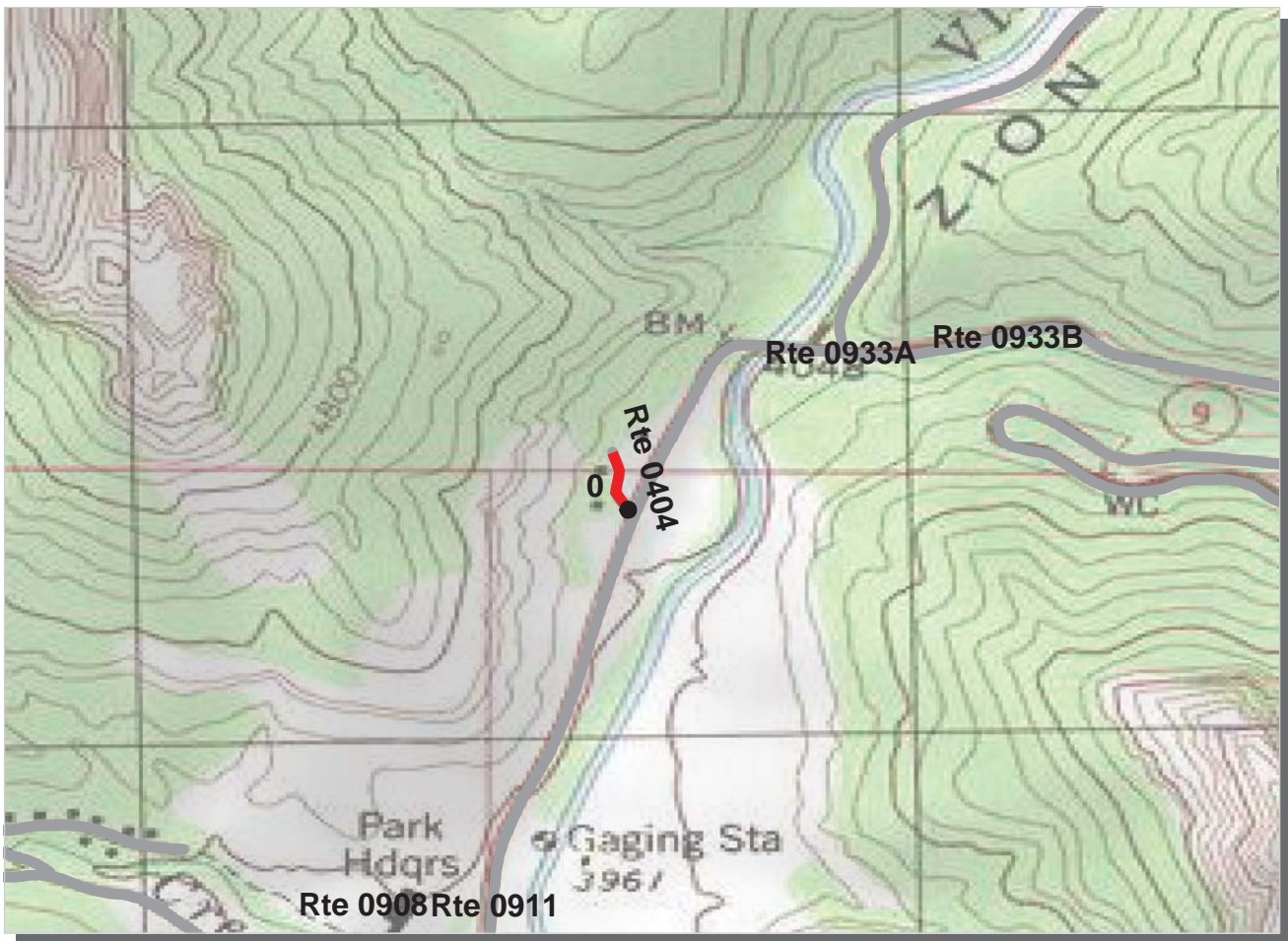
Intermountain Region
ZION : Zion National Park

ROUTE: 0403 Oak Creek Headquarters Road **TOTAL LENGTH: 0.08 Miles**

Section Number	0				
Section Length (mi)	0.08				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	17				
Lane Width (ft)	9				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	39				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	39				
Alligator Cracking Index	95				
Rutting Index	63				
Patching Index	98				
Transverse Cracking Index	89				
Longitudinal Cracking Index	92				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	POOR				

ROUTE: 0403 Oak Creek Headquarters Road

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



PCR	Poor	 	Fair	 	Good	 	Excellent	
		(≤60)		(61 - 84)		(85 - 94)		(95 - 100)

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

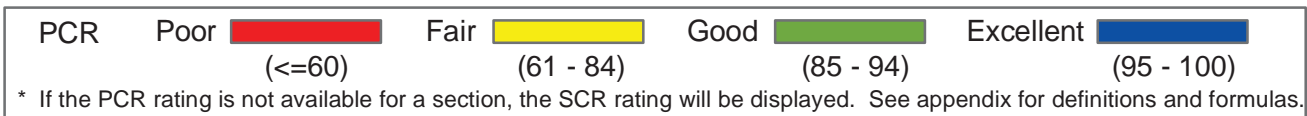
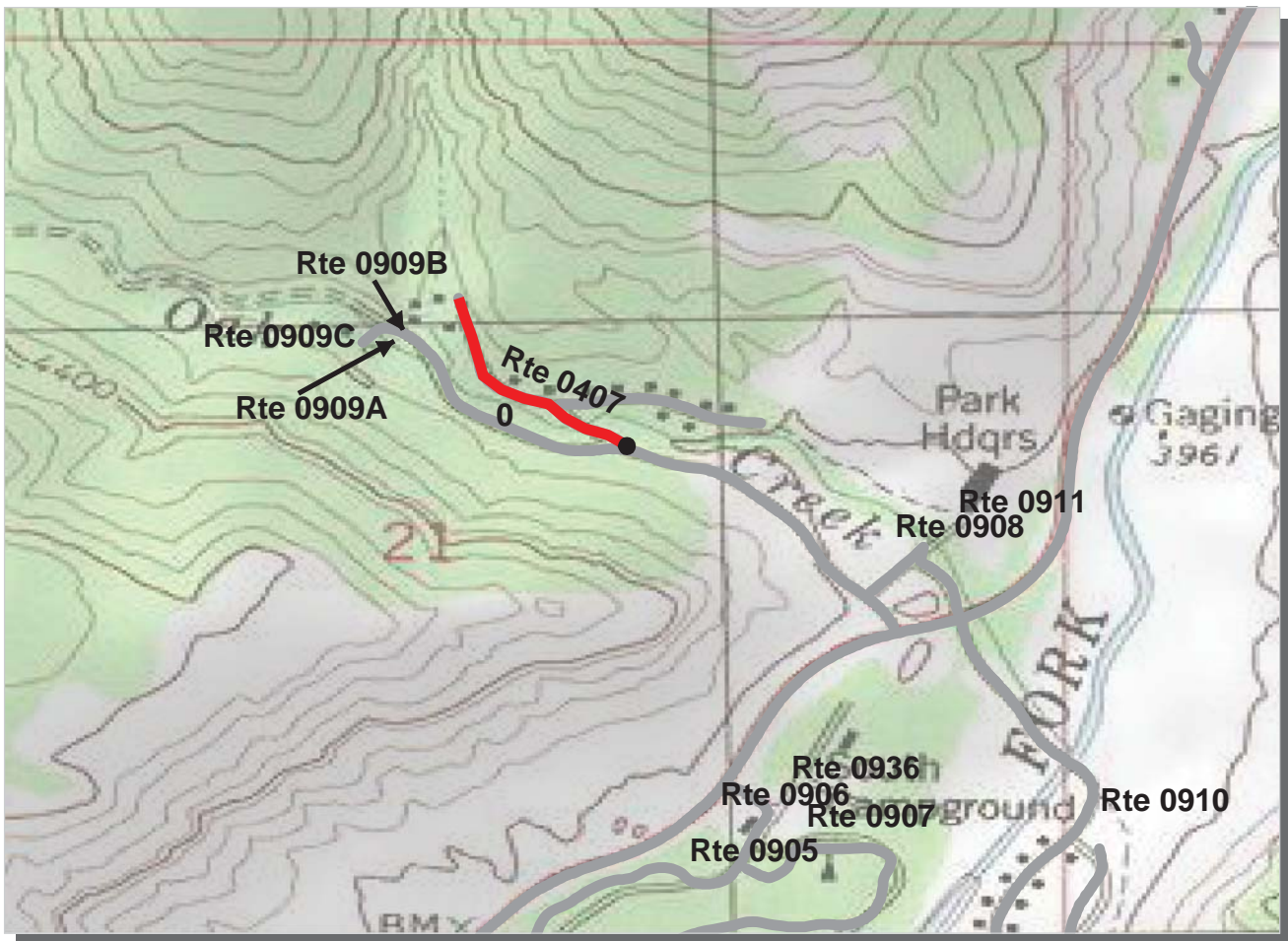
Intermountain Region
ZION : Zion National Park

ROUTE: 0404 Visitor Center Residential Road **TOTAL LENGTH: 0.07 Miles**

Section Number	0				
Section Length (mi)	0.07				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	11				
Lane Width (ft)	11				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	19				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	19				
Alligator Cracking Index	100				
Rutting Index	45				
Patching Index	100				
Transverse Cracking Index	87				
Longitudinal Cracking Index	83				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	POOR				

ROUTE: 0404 Visitor Center Residential Road

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



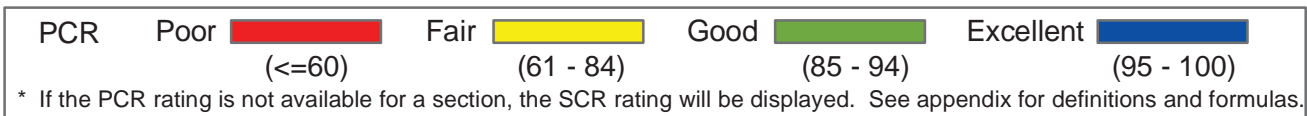
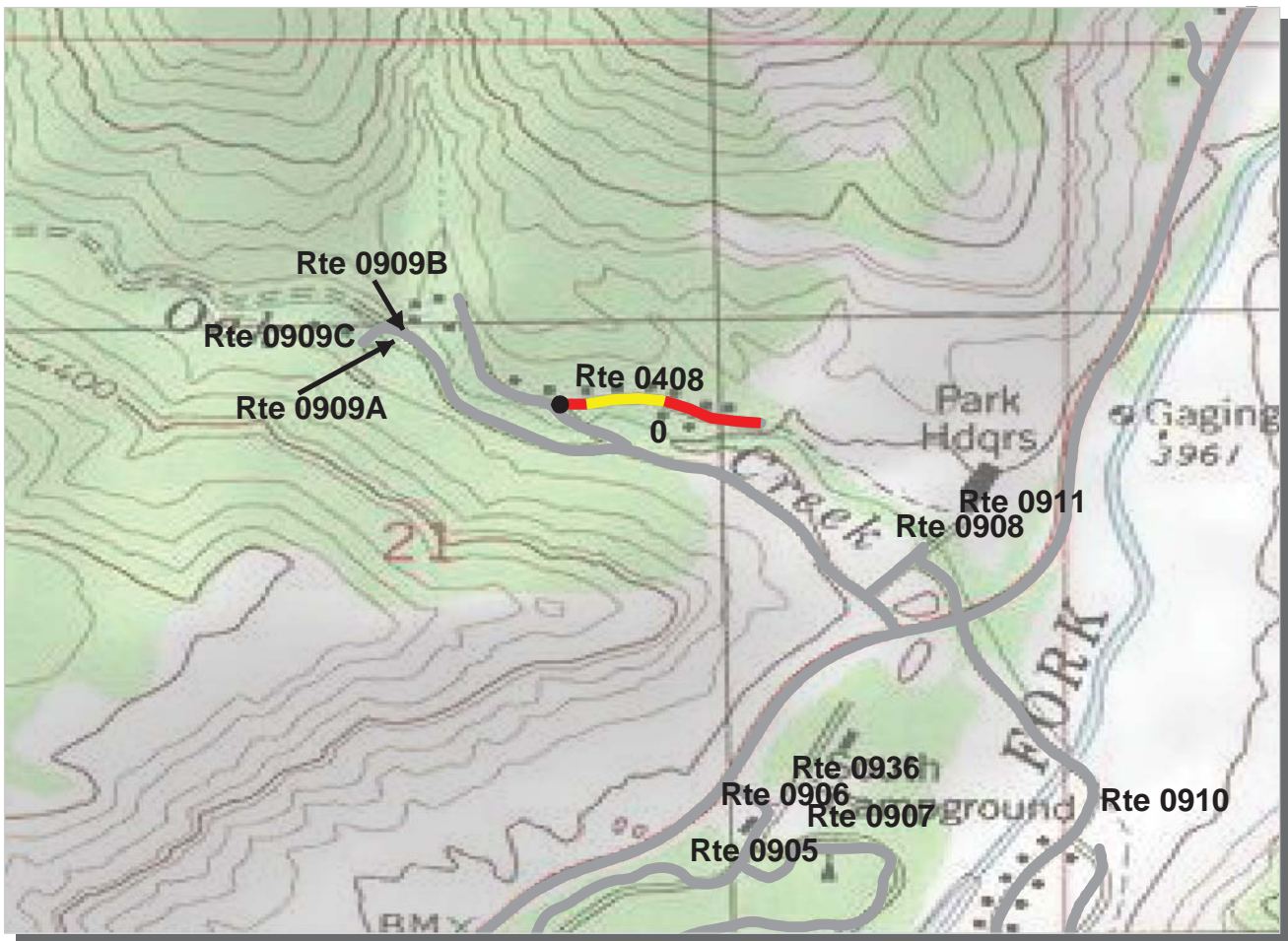
Intermountain Region
ZION : Zion National Park

ROUTE: 0407 Oak Creek Residence Road **TOTAL LENGTH: 0.23 Miles**

Section Number	0			
Section Length (mi)	0.23			
AADT	**			
SADT	**			
ADT Date	**			
Cross Section Information				
Number of Lanes	2			
Paved Width (ft)	21			
Lane Width (ft)	11			
Shoulder Width (ft)	0			
Roadway Condition Information				
PCR (Pavement Condition Rating)	26			
RCI (Roughness Condition Index)	NC			
SCR (Surface Condition Rating)	26			
Alligator Cracking Index	97			
Rutting Index	50			
Patching Index	100			
Transverse Cracking Index	86			
Longitudinal Cracking Index	88			
Shoulder Condition Rating	N/A			
Drainage Condition Rating	POOR			

ROUTE: 0407 Oak Creek Residence Road

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



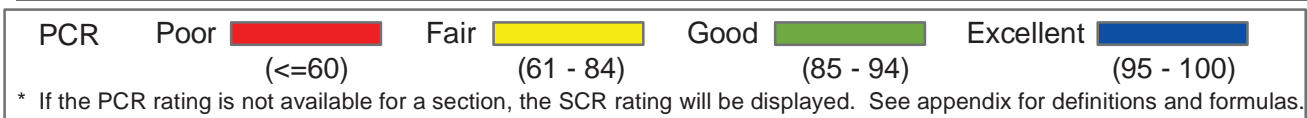
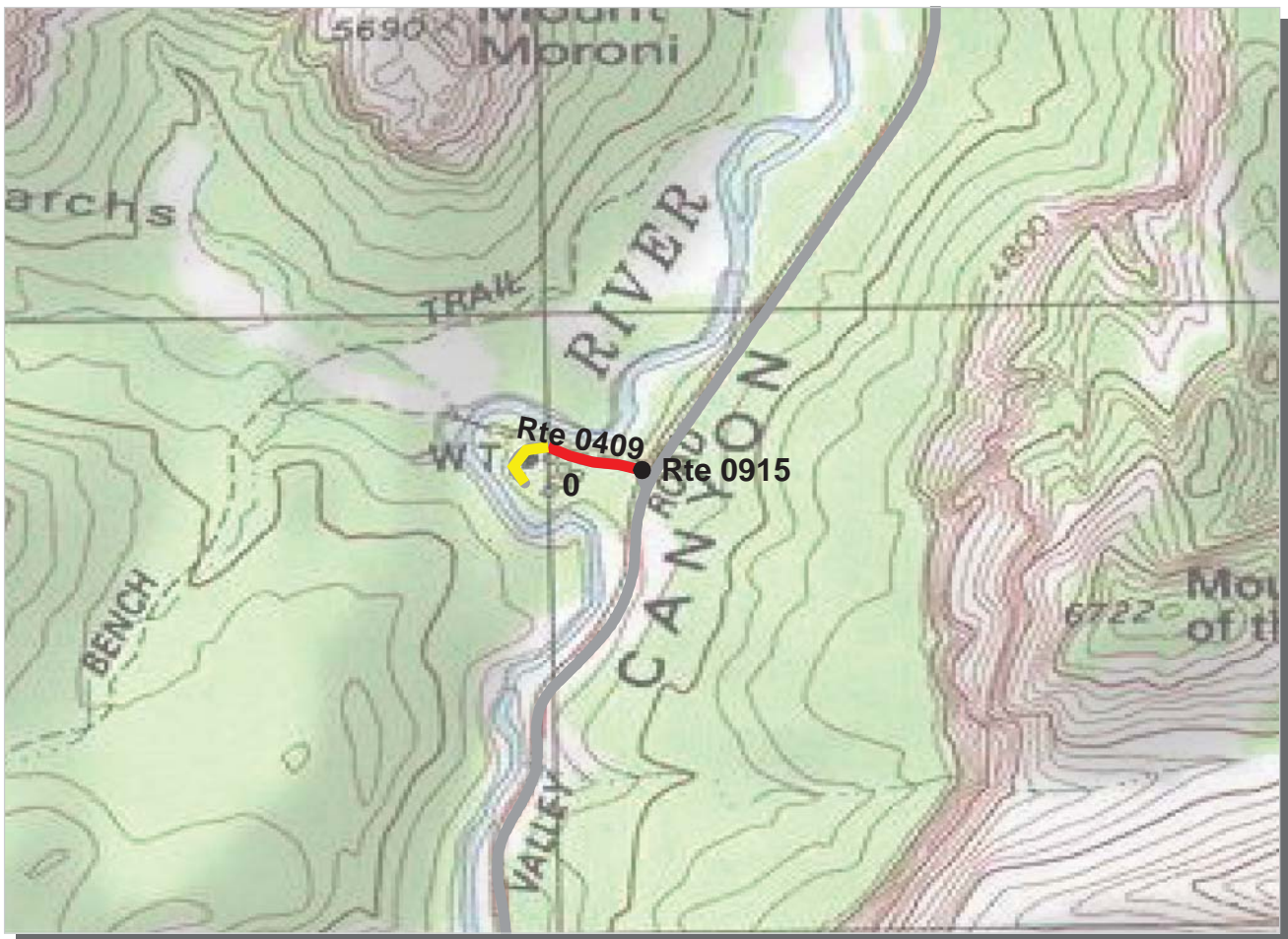
Intermountain Region
ZION : Zion National Park

ROUTE: 0408 Oak Creek Residence Spur Road **TOTAL LENGTH: 0.18 Miles**

Section Number	0			
Section Length (mi)	0.18			
AADT	**			
SADT	**			
ADT Date	**			
Cross Section Information				
Number of Lanes	2			
Paved Width (ft)	19			
Lane Width (ft)	8			
Shoulder Width (ft)	0			
Roadway Condition Information				
PCR (Pavement Condition Rating)	49			
RCI (Roughness Condition Index)	48			
SCR (Surface Condition Rating)	48			
Alligator Cracking Index	99			
Rutting Index	55			
Patching Index	100			
Transverse Cracking Index	96			
Longitudinal Cracking Index	97			
Shoulder Condition Rating	N/A			
Drainage Condition Rating	GOOD			

ROUTE: 0408 Oak Creek Residence Spur Road

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



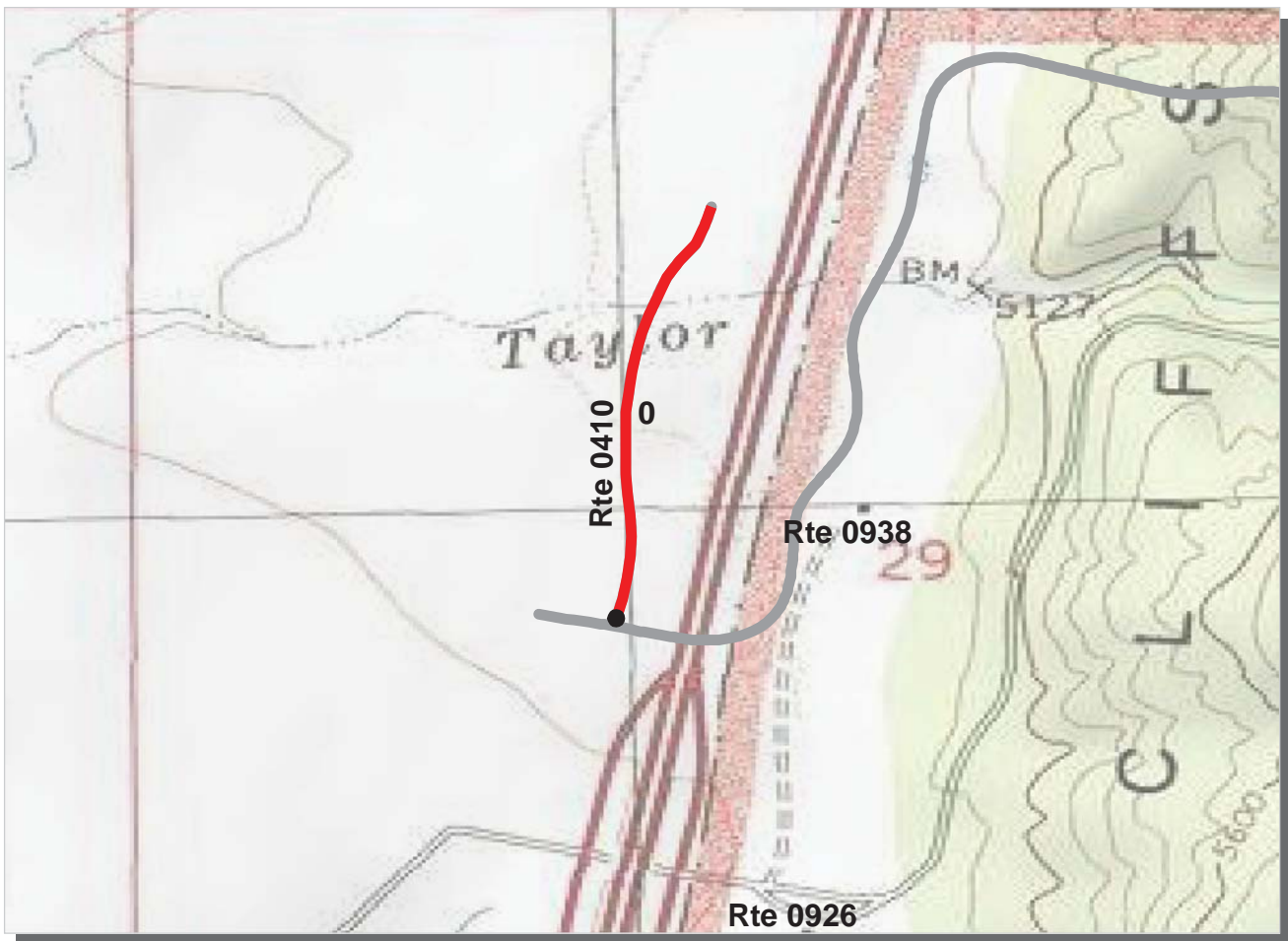
Intermountain Region
ZION : Zion National Park

ROUTE: 0409 Horse Corral Road **TOTAL LENGTH: 0.15 Miles**

Section Number	0				
Section Length (mi)	0.15				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	13				
Lane Width (ft)	13				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	46				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	46				
Alligator Cracking Index	90				
Rutting Index	66				
Patching Index	99				
Transverse Cracking Index	94				
Longitudinal Cracking Index	95				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	POOR				

ROUTE: 0409 Horse Corral Road

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



PCR Poor ■ Fair ■ Good ■ Excellent ■
 (<=60) (61 - 84) (85 - 94) (95 - 100)

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

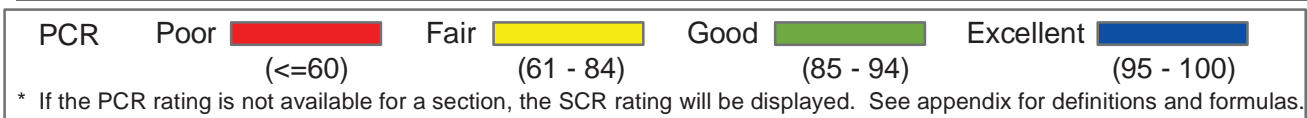
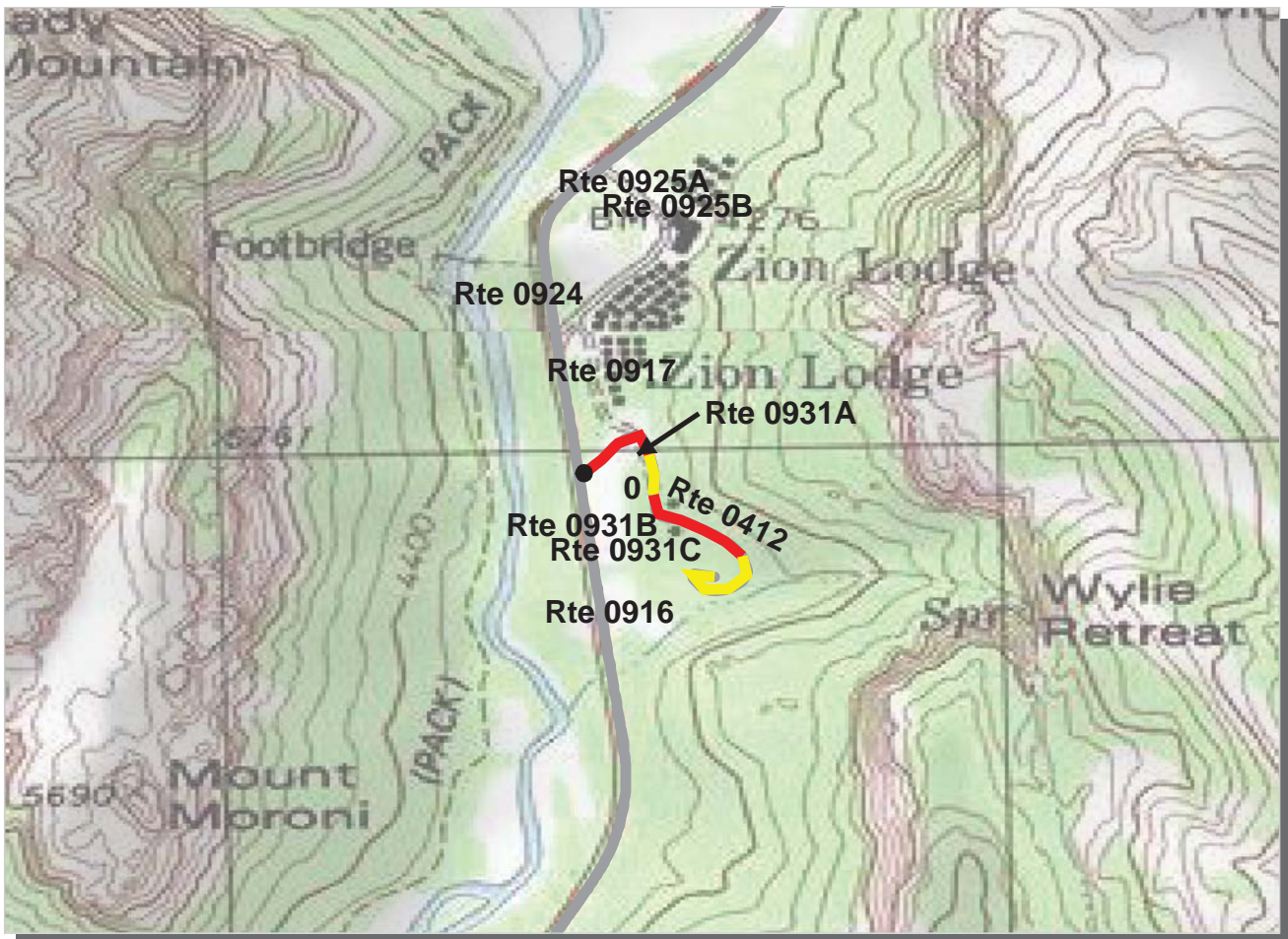
Intermountain Region
ZION : Zion National Park

ROUTE: 0410 Kolob Service Road **TOTAL LENGTH: 0.44 Miles**

Section Number	0				
Section Length (mi)	0.44				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	17				
Lane Width (ft)	8				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	40				
RCI (Roughness Condition Index)	58				
SCR (Surface Condition Rating)	32				
Alligator Cracking Index	92				
Rutting Index	55				
Patching Index	96				
Transverse Cracking Index	94				
Longitudinal Cracking Index	91				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	POOR				

ROUTE: 0410 Kolob Service Road

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



Intermountain Region
ZION : Zion National Park

ROUTE: 0412 Concessionaire / Dorm Access Road **TOTAL LENGTH: 0.34 Miles**

Section Number	0			
Section Length (mi)	0.34			
AADT	**			
SADT	**			
ADT Date	**			
Cross Section Information				
Number of Lanes	2			
Paved Width (ft)	18			
Lane Width (ft)	10			
Shoulder Width (ft)	0			
Roadway Condition Information				
PCR (Pavement Condition Rating)	57			
RCI (Roughness Condition Index)	NC			
SCR (Surface Condition Rating)	57			
Alligator Cracking Index	100			
Rutting Index	62			
Patching Index	100			
Transverse Cracking Index	96			
Longitudinal Cracking Index	98			
Shoulder Condition Rating	N/A			
Drainage Condition Rating	POOR			

ROUTE: 0412 Concessionaire / Dorm Access Road

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

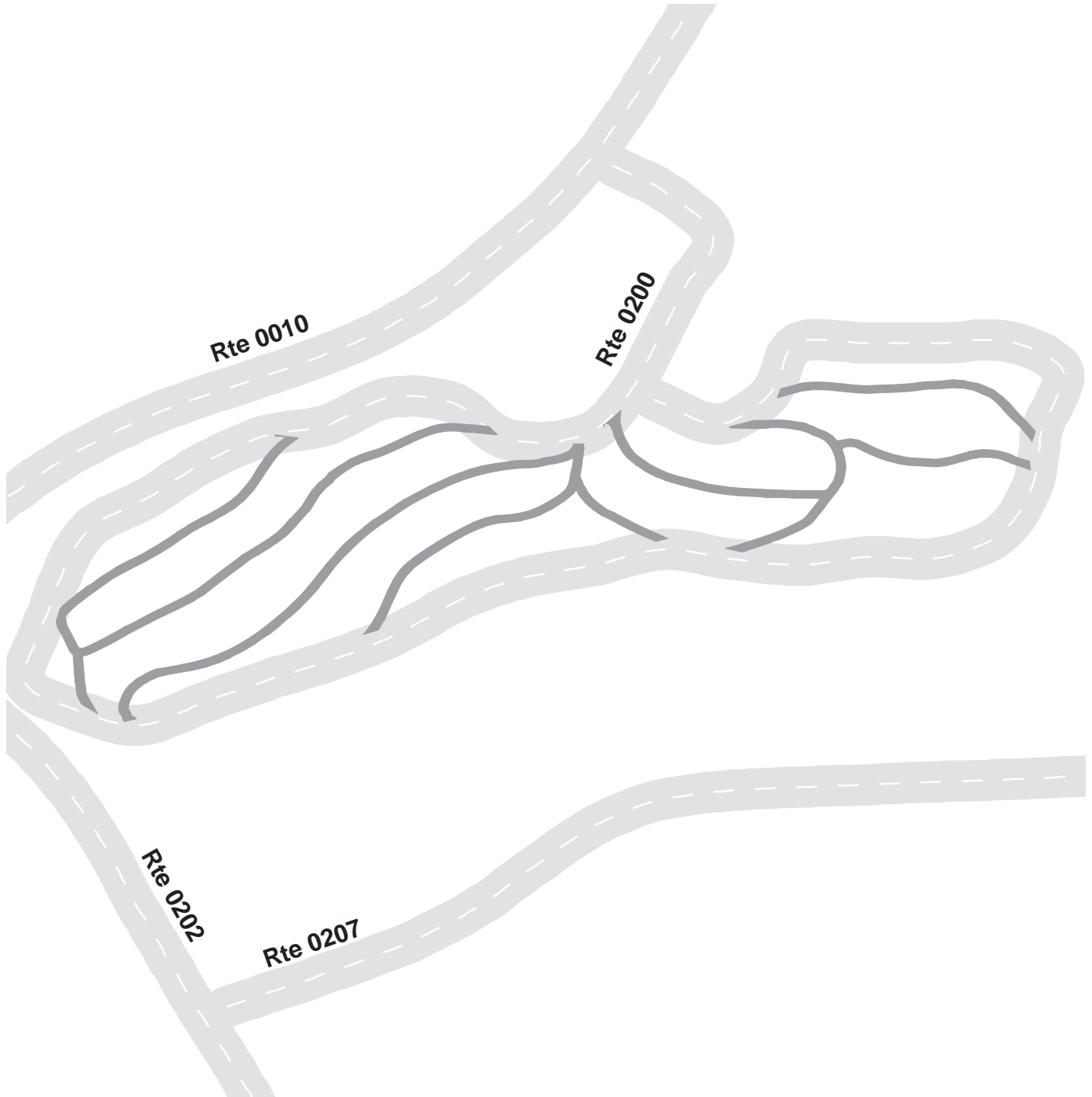
Zion National Park

Route 0200A

South Campground Inside Roads
From Campground roads inside Route 200 loop

Route	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles *	Condition / PCR	Surface Type
0200A	0.00	0.00	63690	1.10	FAIR / 73	OC

* Lane miles are based on 11' lane widths



Zion National Park

Route 0411

Kolob Residence Road

From Route 0410

Route	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles *	Condition / PCR	Surface Type
0411	0.07	0.00	4614	0.08	GOOD / 90	OC

* Lane miles are based on 11' lane widths



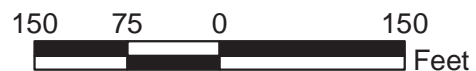
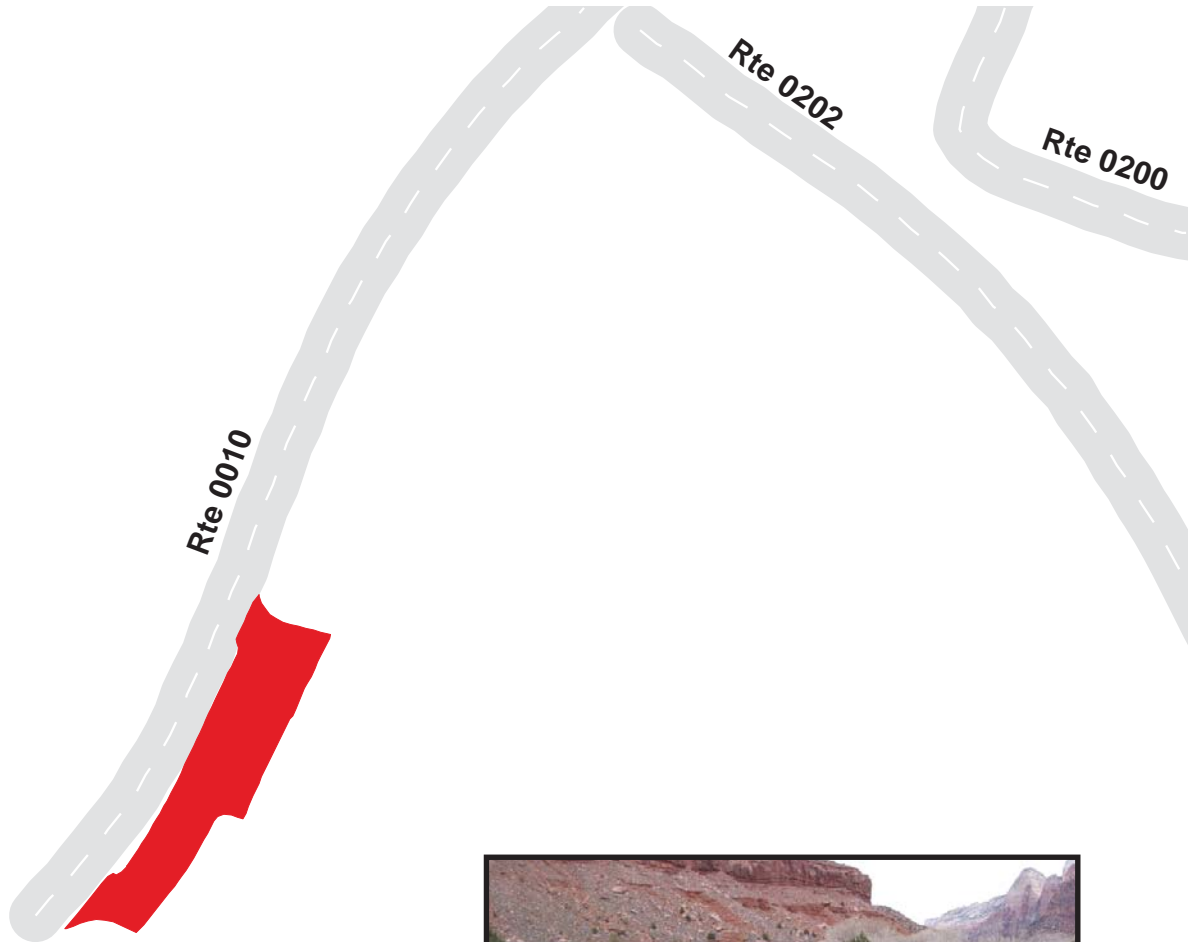
Zion National Park

Route 0900

South Entrance Parking
Adjacent to Route 0010

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0900	Public	2/11/2003	12501	0.22	OC	FAIR / 73

* Lane miles are based on 11' lane widths



Zion National Park

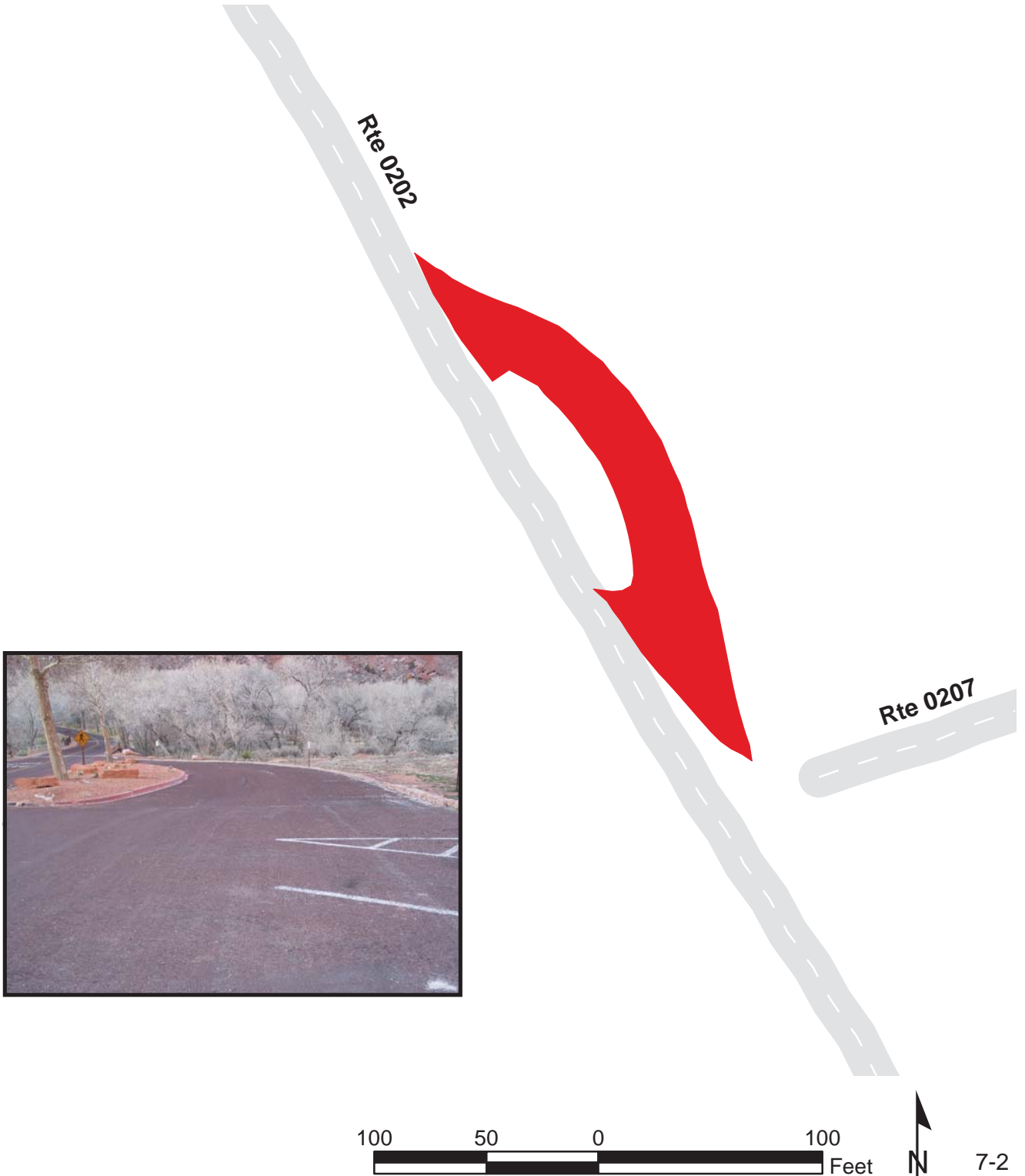
Route 0901

Watchman Campground Dump Station

Adjacent to Route 0202

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0901	Public	2/11/2003	5775	0.10	OC	FAIR / 73

* Lane miles are based on 11' lane widths



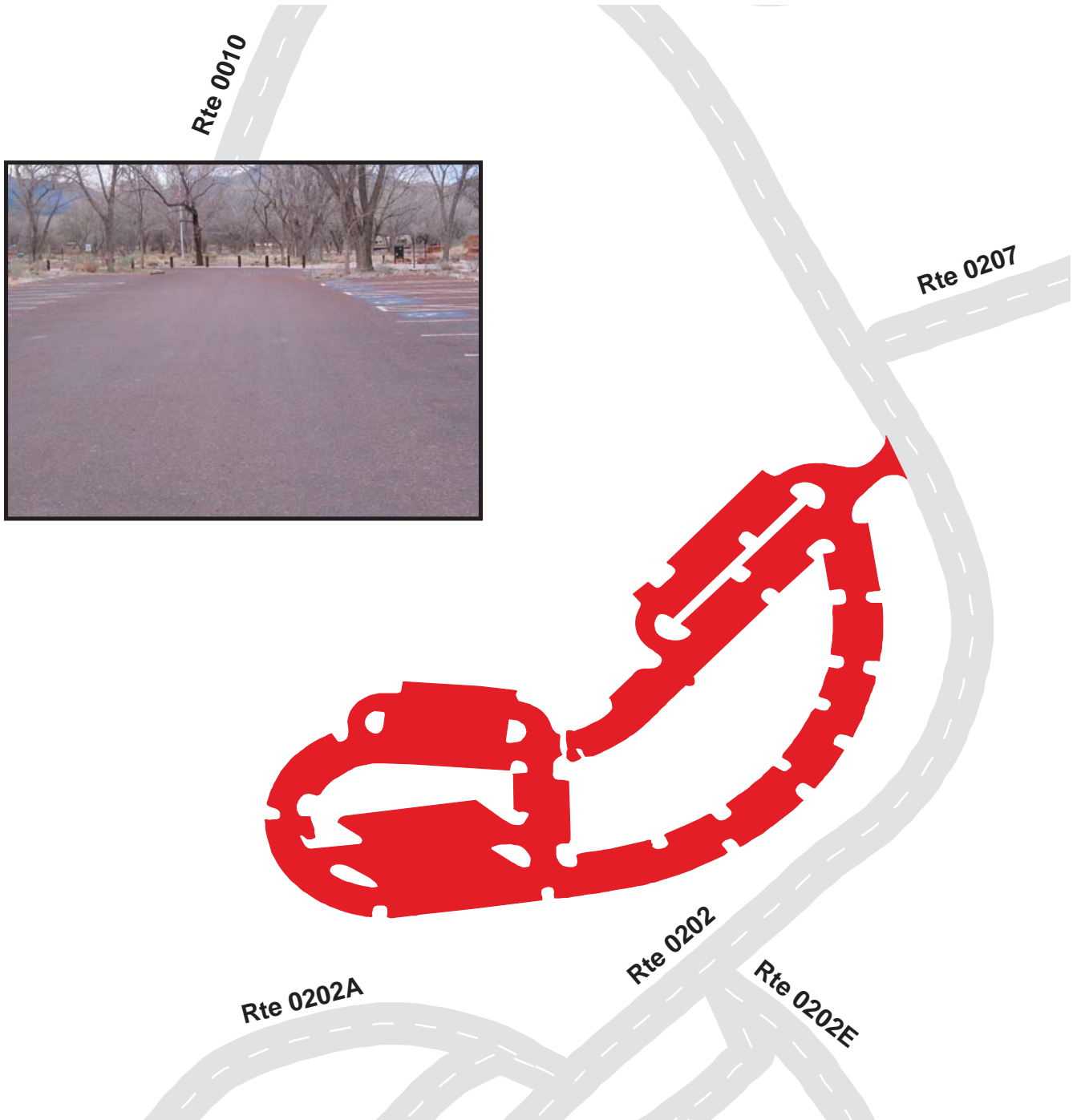
Zion National Park

Route 0902

Zion Canyon Visitor Center RV Parking
Adjacent to Route 0202

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0902	Public	2/11/2003	158319	2.73	OC	GOOD / 90

* Lane miles are based on 11' lane widths



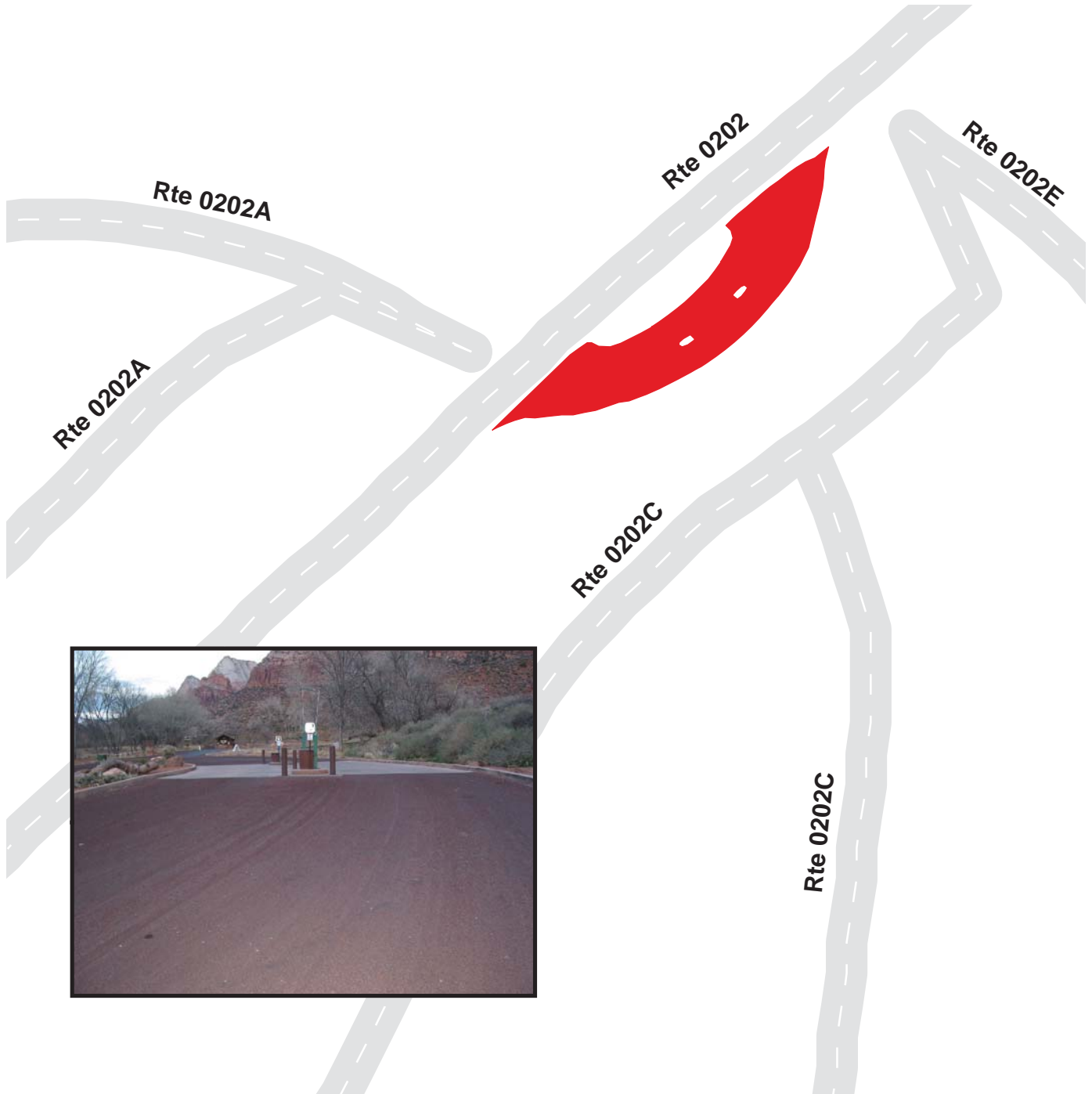
Zion National Park

Route 0903

Watchman Amphitheater Dump Station
Adjacent to Route 0202

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0903	Public	2/11/2003	6142	0.11	OC	GOOD / 90

* Lane miles are based on 11' lane widths



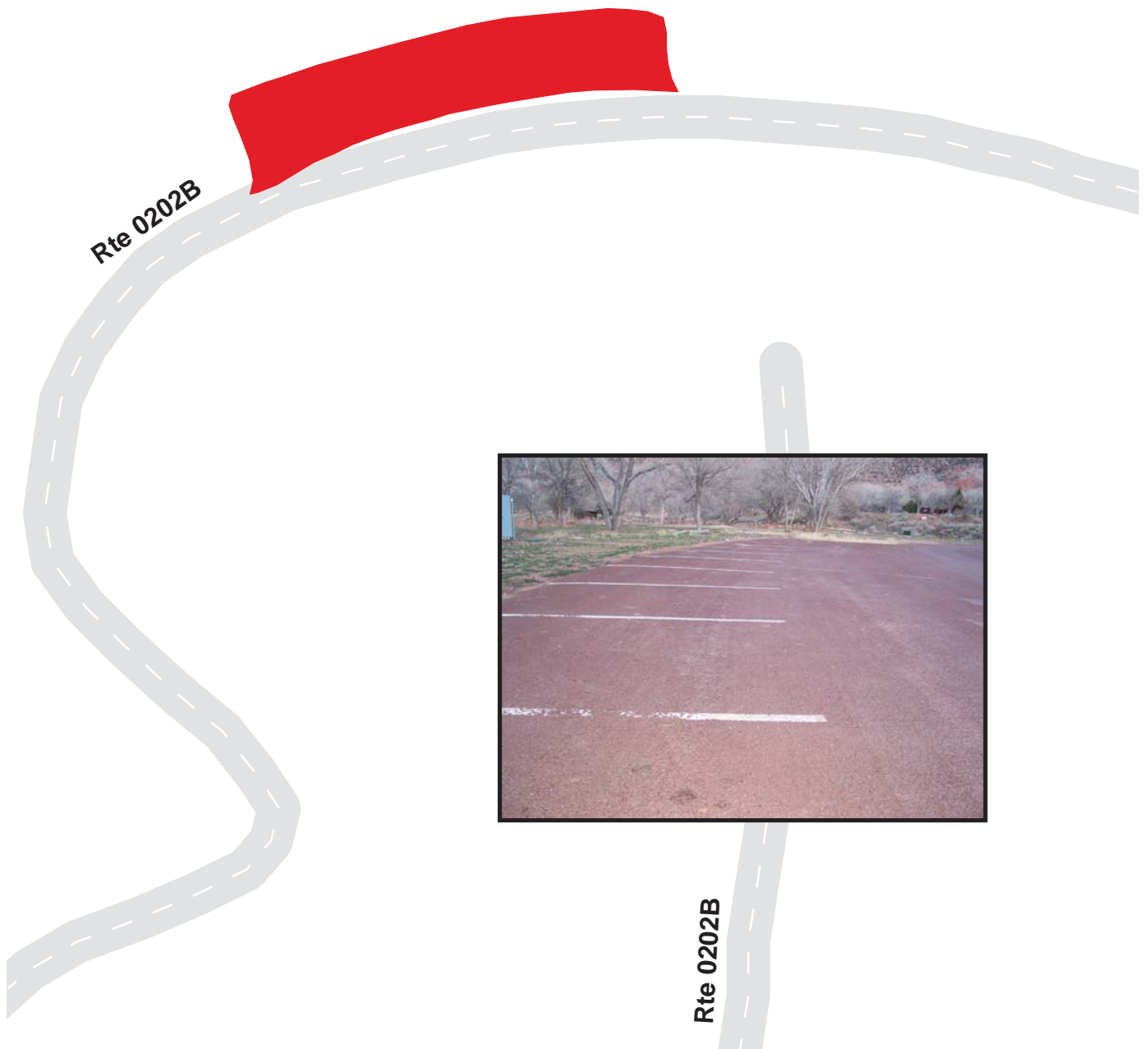
Zion National Park

Route 0904

Watchman Amphitheater Loop B Parking
Adjacent to Route 0202B

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0904	Public	2/11/2003	3498	0.06	OC	GOOD / 90

* Lane miles are based on 11' lane widths



Zion National Park

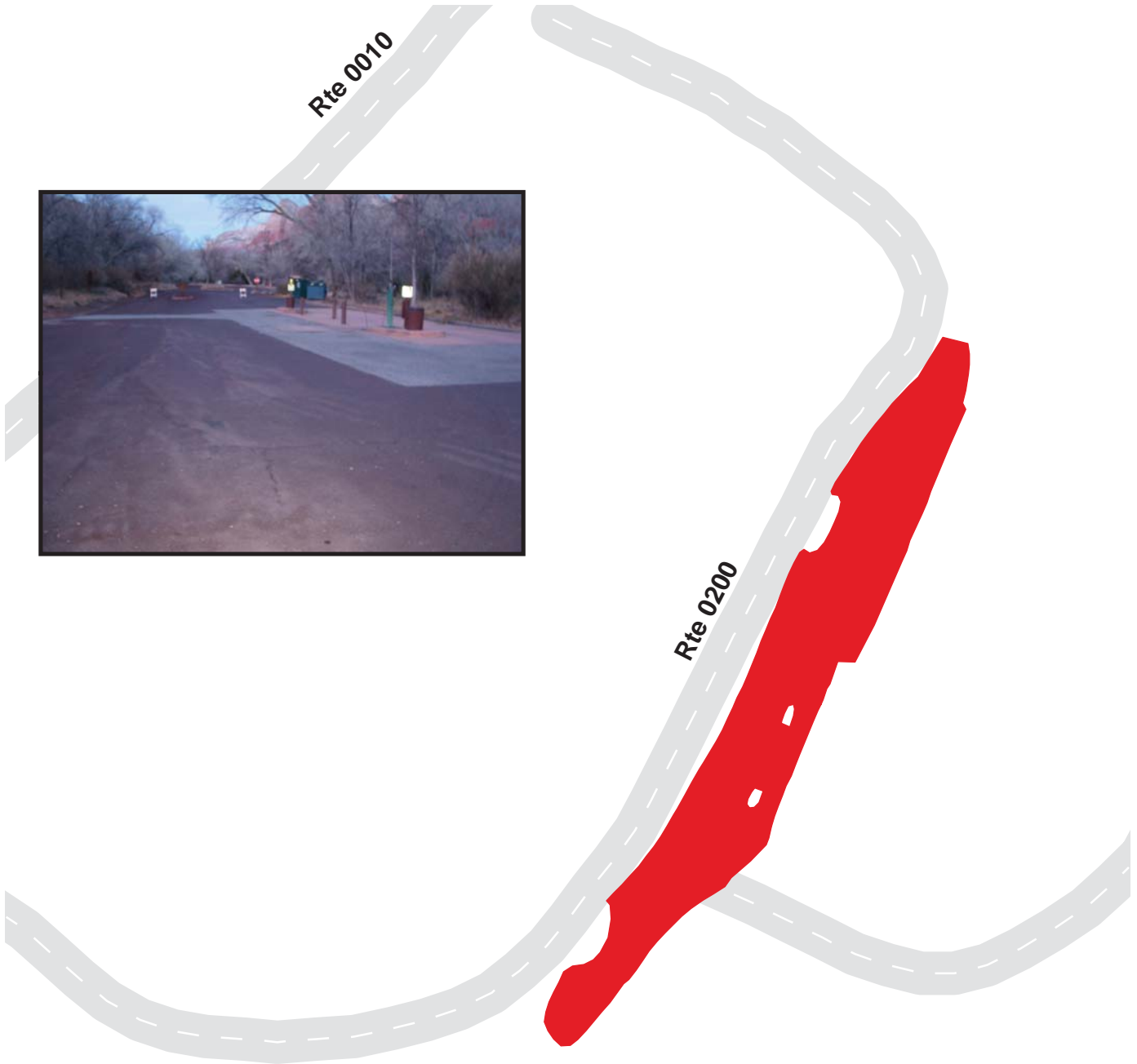
Route 0905

South Campground Dump Station

Adjacent to Route 0200

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0905	Public	2/11/2003	11982	0.21	OC	POOR / 45

* Lane miles are based on 11' lane widths



Zion National Park

Route 0906

Zion Nature Center Parking
Adjacent to Route 0200

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0906	Public	2/11/2003	29671	0.51	OC	POOR / 45

* Lane miles are based on 11' lane widths



Zion National Park
Route 0907
 South Amphitheater Parking
 Adjacent to Route 0906

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0907	Public	2/11/2003	24767	0.43	AS	FAIR / 73

* Lane miles are based on 11' lane widths



Zion National Park

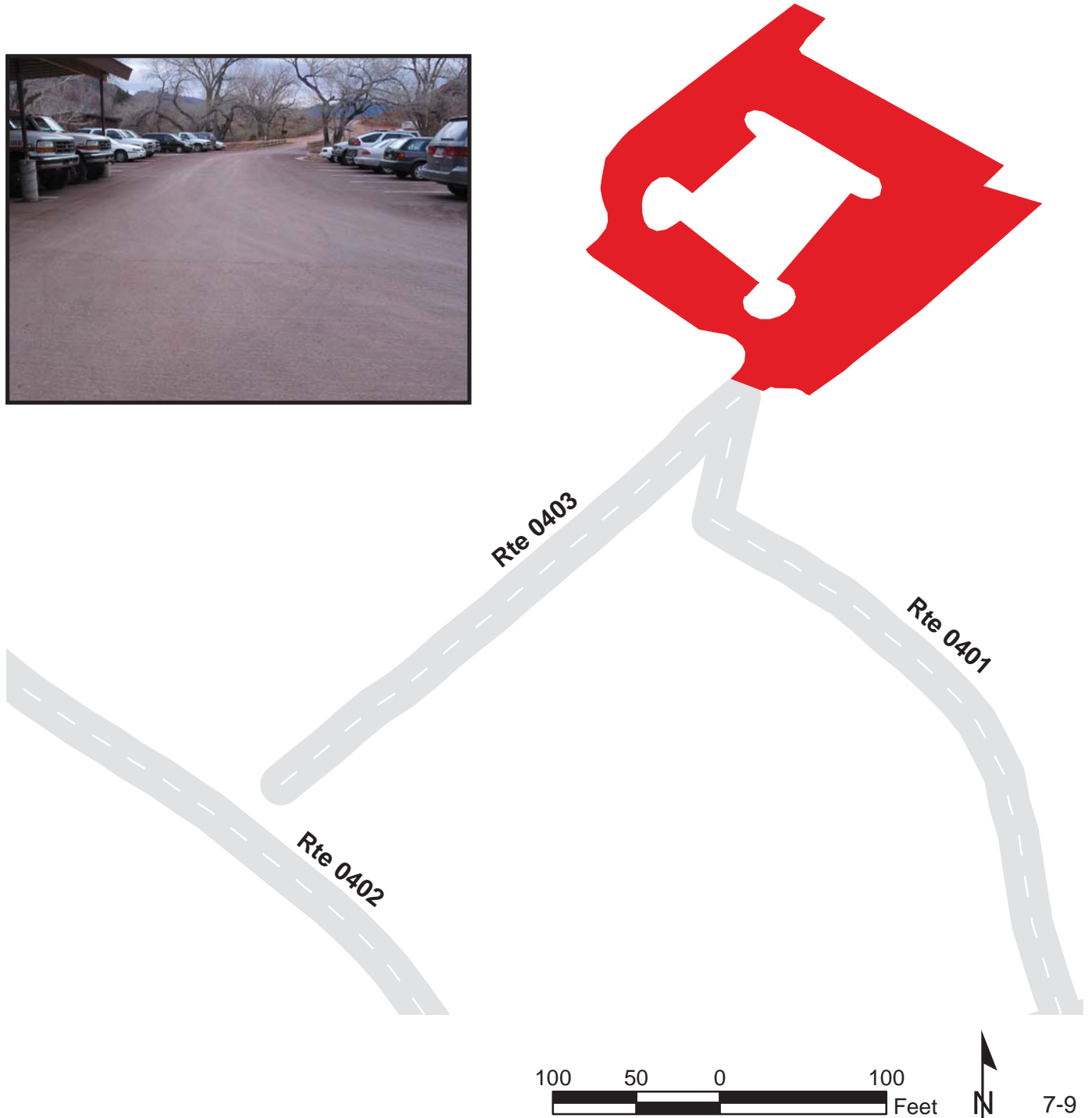
Route 0908

Oak Creek Headquarters Parking

At End of Route 0403

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0908	NonPublic	2/11/2003	21062	0.36	OC	FAIR / 73

* Lane miles are based on 11' lane widths



Zion National Park

Route 0909A

Oak Creek Maintenance Area A

End of Route 0402

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0909A	NonPublic	2/11/2003	2022	0.03	AS	POOR / 45

* Lane miles are based on 11' lane widths



Zion National Park

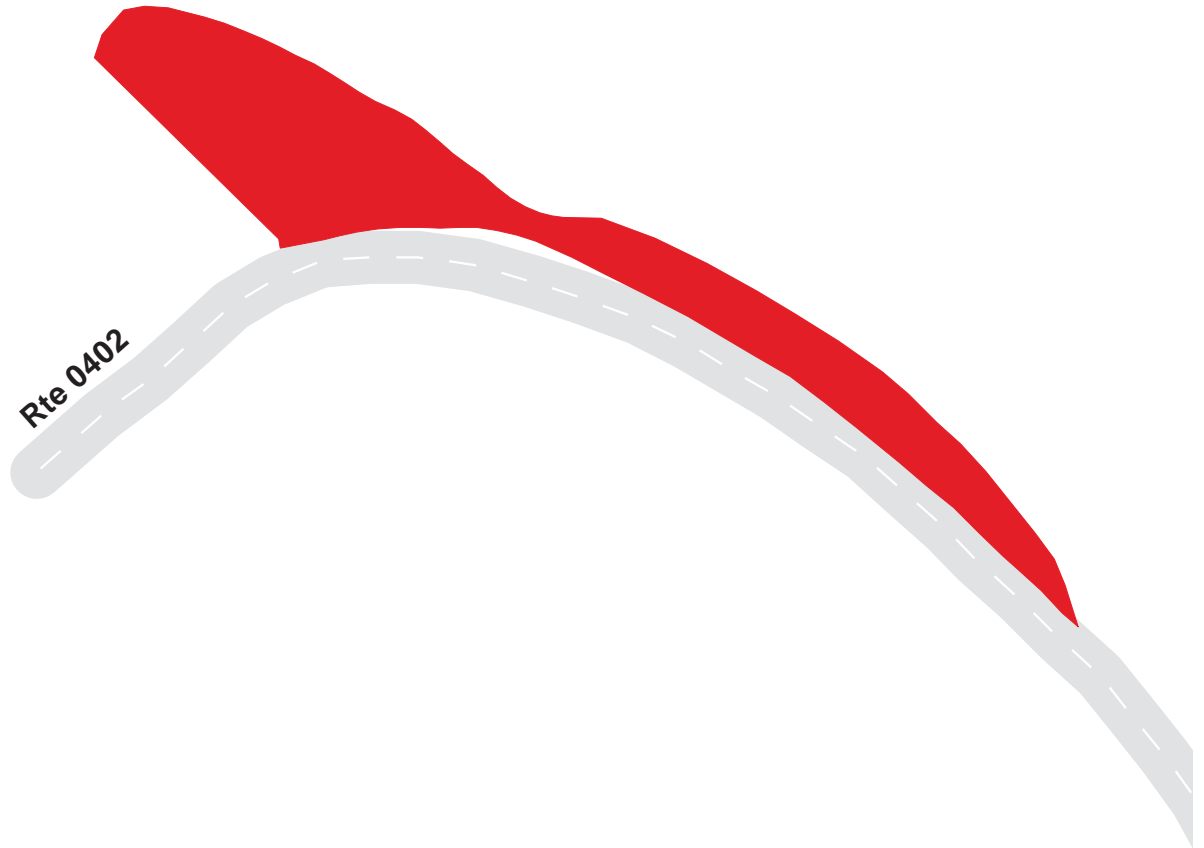
Route 0909B

Oak Creek Maintenance Overflow Parking B

Near end of Route 0402 on left

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0909B	NonPublic	2/11/2003	7919	0.14	AS	GOOD / 90

* Lane miles are based on 11' lane widths



Zion National Park

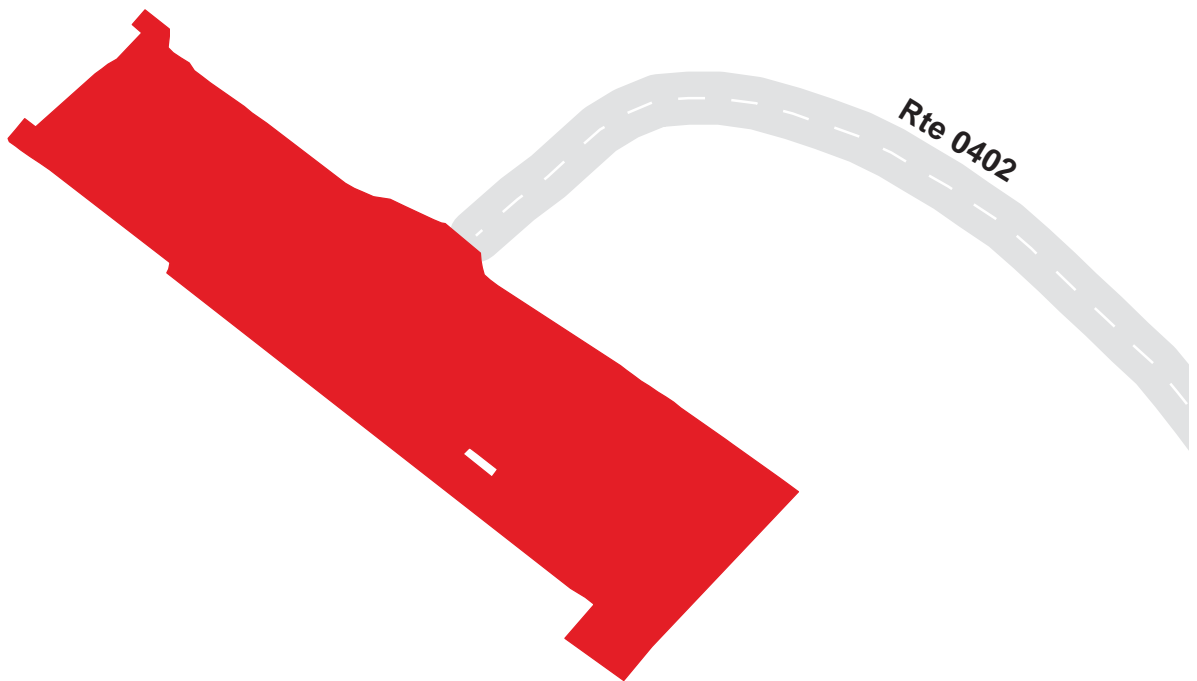
Route 0909C

Oak Creek Maintenance Overflow Parking C

Near end of Route 0402 on right

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0909C	Public	2/11/2003	7919	0.14	AS	GOOD / 90

* Lane miles are based on 11' lane widths



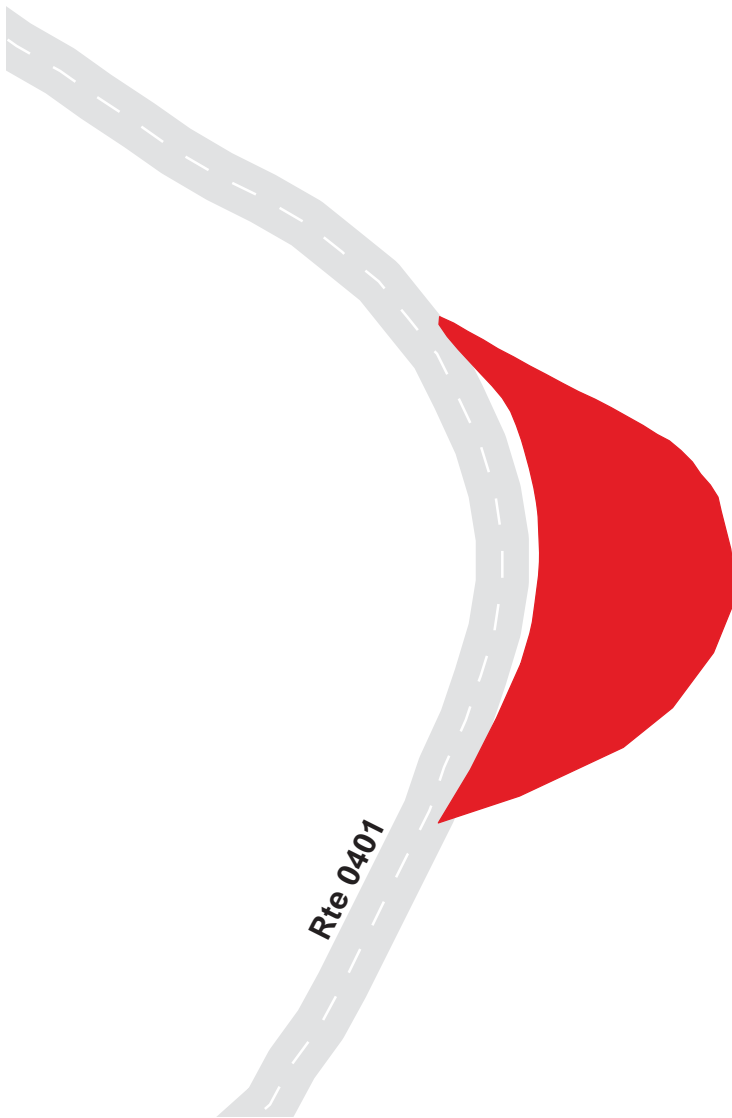
Zion National Park

Route 0910

Helicopter Landing Pad
Adjacent to Route 0401

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0910	NonPublic	2/11/2003	8246	0.14	OC	FAIR / 73

* Lane miles are based on 11' lane widths



Zion National Park

Route 0911

Oak Creek Visitor Center Parking
Adjacent to Route 0010

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0911	Public	2/11/2003	50089	0.86	OC	FAIR / 73

* Lane miles are based on 11' lane widths



Zion National Park

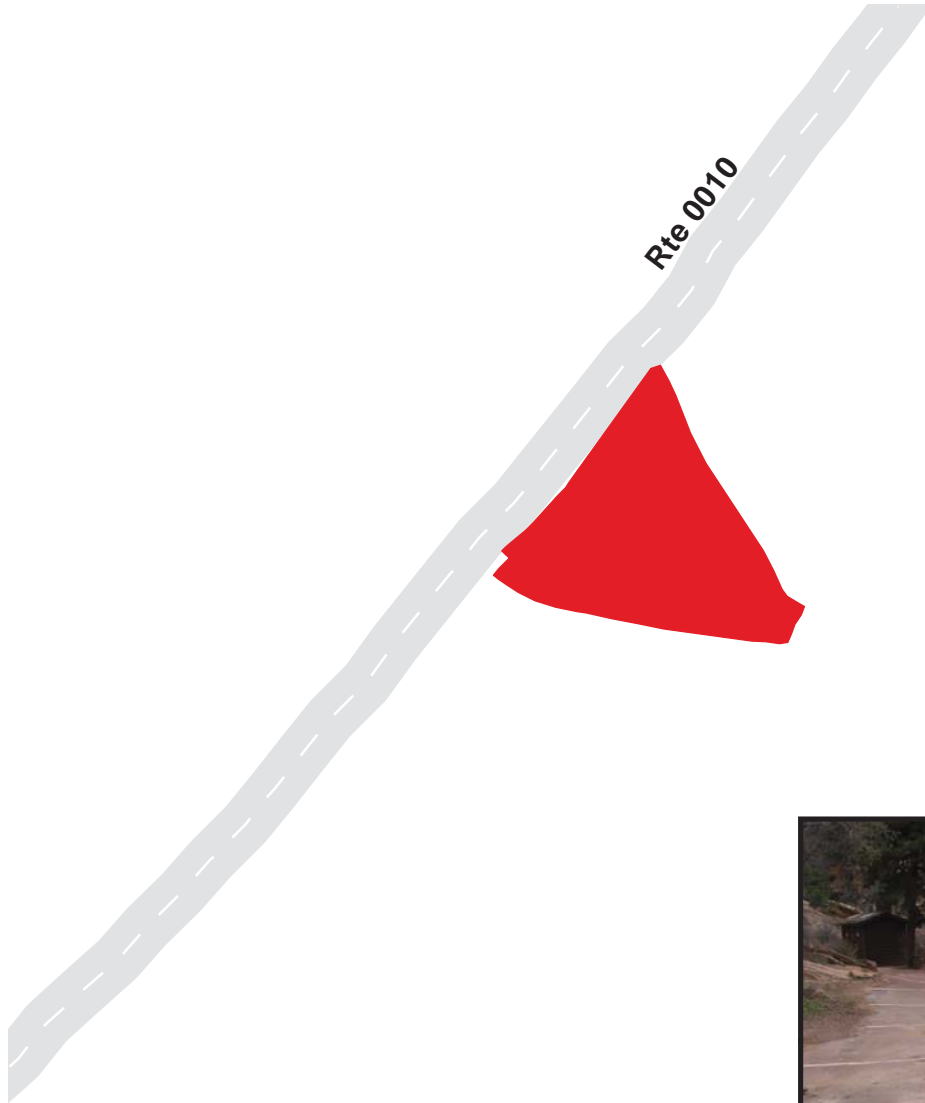
Route 0912

North Tunnel Entrance Parking

Adjacent to Route 0010

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0912	Public	2/11/2003	5301	0.09	AS	POOR / 45

* Lane miles are based on 11' lane widths



Zion National Park

Route 0913

Checkerboard Mesa Viewpoint Parking
Adjacent to Route 0010

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0913	Public	2/11/2003	9467	0.16	OC	FAIR / 73

* Lane miles are based on 11' lane widths



Zion National Park

Route 0915

Court of the Patriarchs Parking
Adjacent to Route 0011

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0915	Public	2/11/2003	6103	0.11	AS	GOOD / 90

* Lane miles are based on 11' lane widths



Zion National Park

Route 0916

Mount Maroni Turnout
Adjacent to Route 0011

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0916	Public	2/11/2003	6620	0.11	OC	FAIR / 73

* Lane miles are based on 11' lane widths



Zion National Park

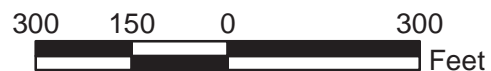
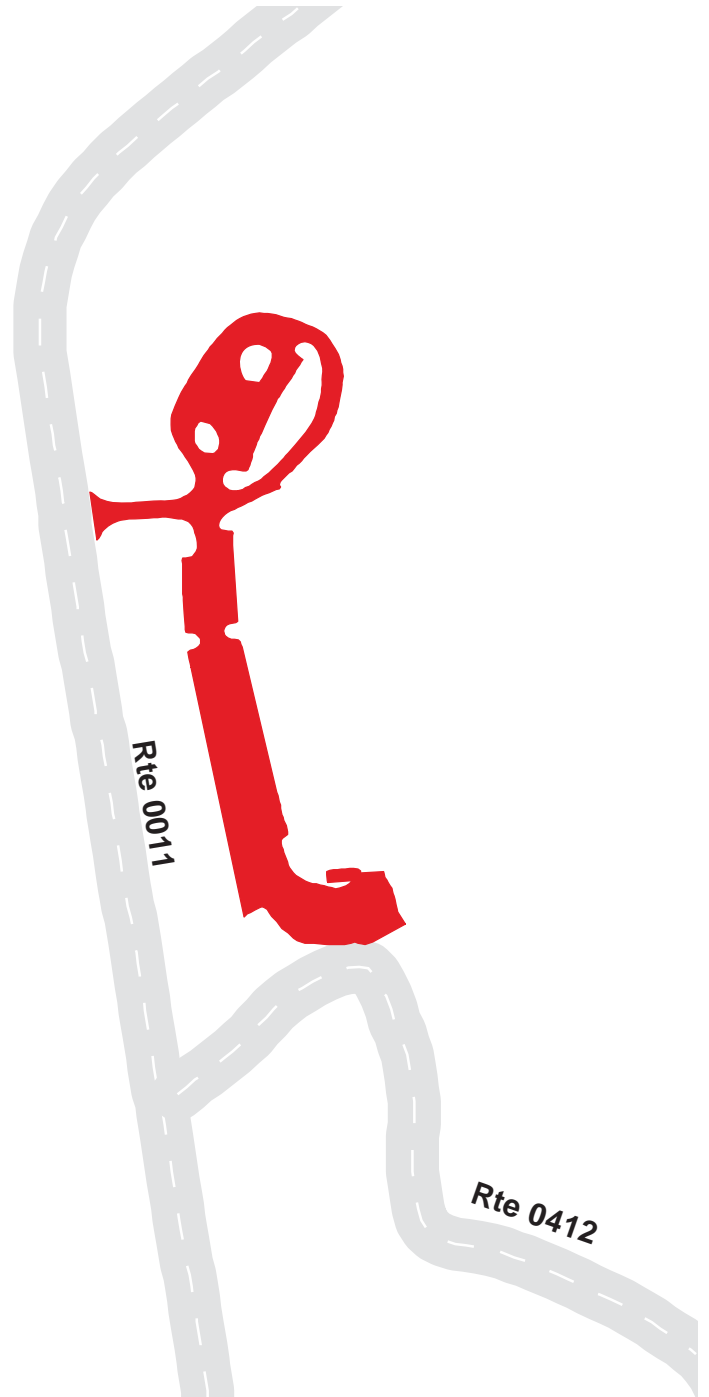
Route 0917

Zion Lodge Cabin Parking

Adjacent to Route 0011 and Route 0412

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0917	Public	2/11/2003	91724	1.58	AS	FAIR / 73

* Lane miles are based on 11' lane widths



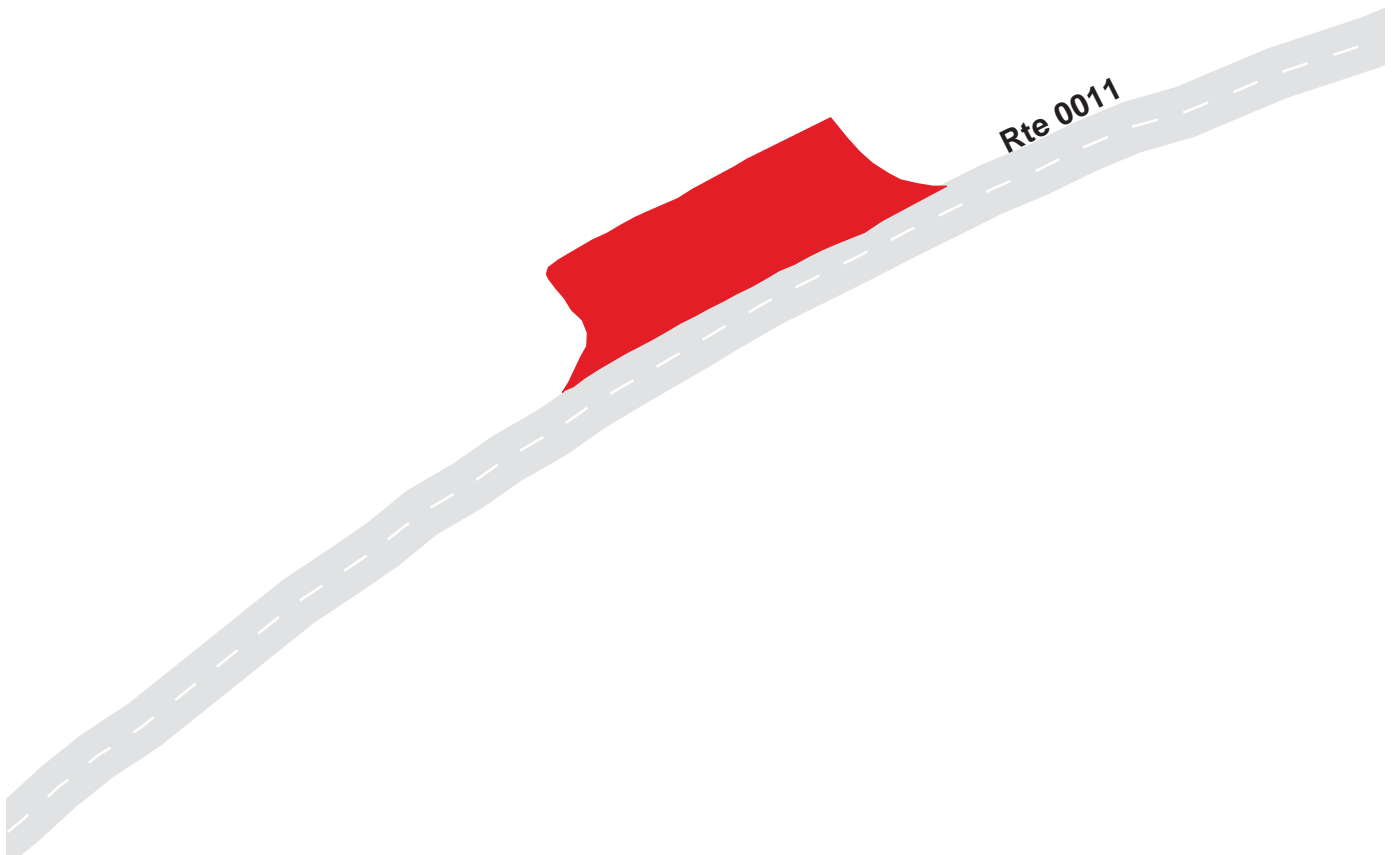
Zion National Park

Route 0918

West Rim Trailhead Parking
Adjacent to Route 0011

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0918	Public	2/11/2003	4100	0.07	OC	FAIR / 73

* Lane miles are based on 11' lane widths



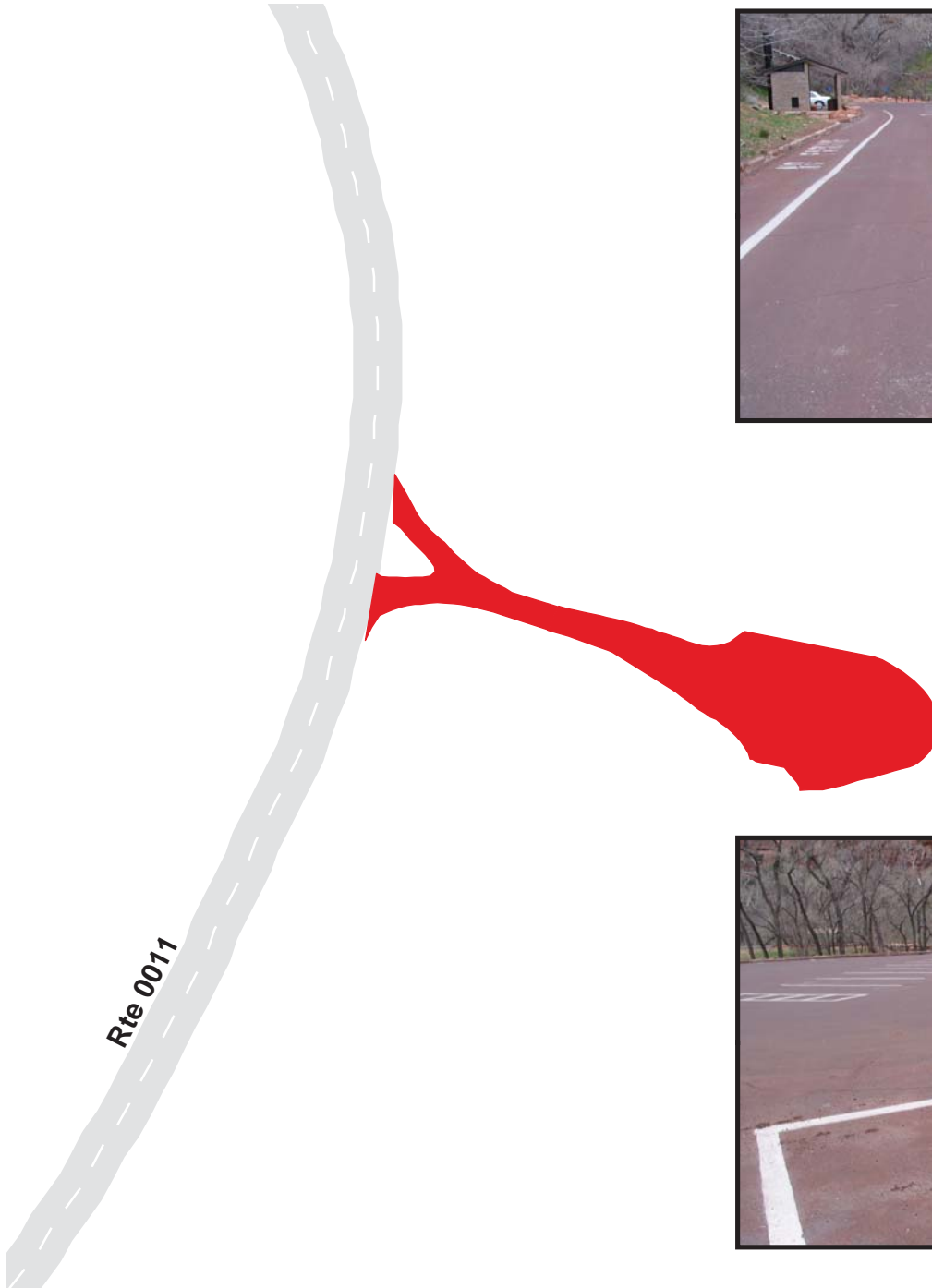
Zion National Park

Route 0920

Weeping Rock Parking
Adjacent to Route 0011

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0920	Public	2/11/2003	18075	0.31	OC	FAIR / 73

* Lane miles are based on 11' lane widths



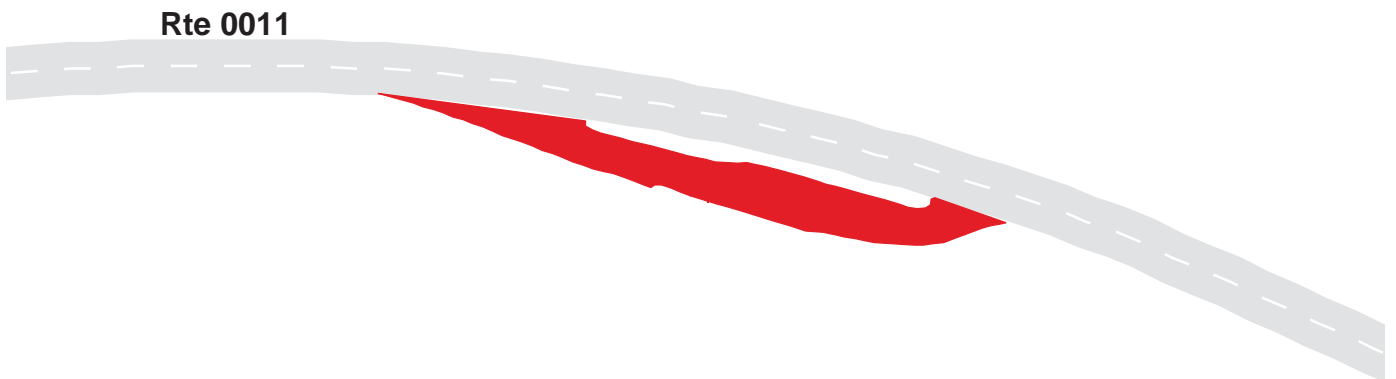
Zion National Park

Route 0921

The Great White Throne Parking
Adjacent to Route 0011

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0921	Public	2/11/2003	5697	0.10	OC	POOR / 45

* Lane miles are based on 11' lane widths



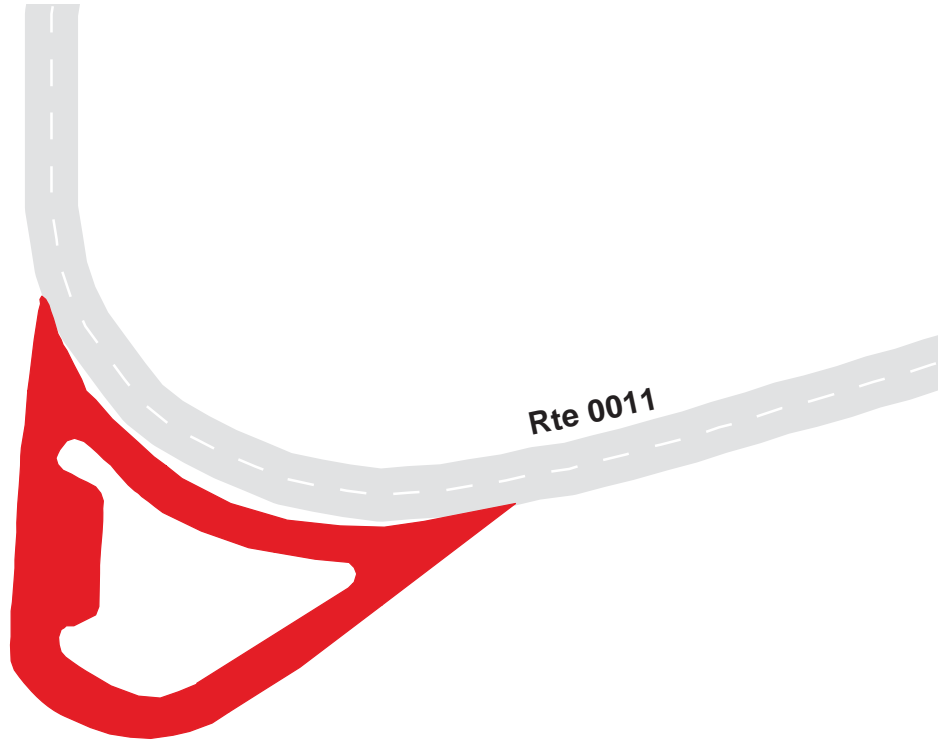
Zion National Park

Route 0922

Big Bend Bus and Trailer Parking
Adjacent to Route 0011

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0922	Public	2/11/2003	14711	0.25	AS	FAIR / 73

* Lane miles are based on 11' lane widths



Zion National Park

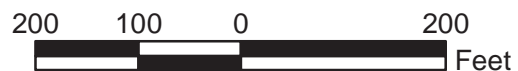
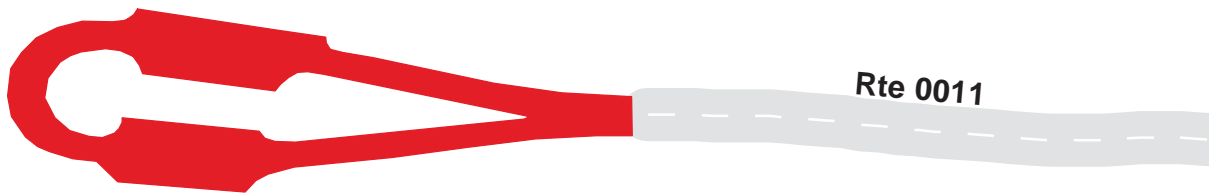
Route 0923

Temple of Sinawava Parking

At End of Route 0011

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0923	Public	2/11/2003	33883	0.58	AS	EXCELLENT / 97

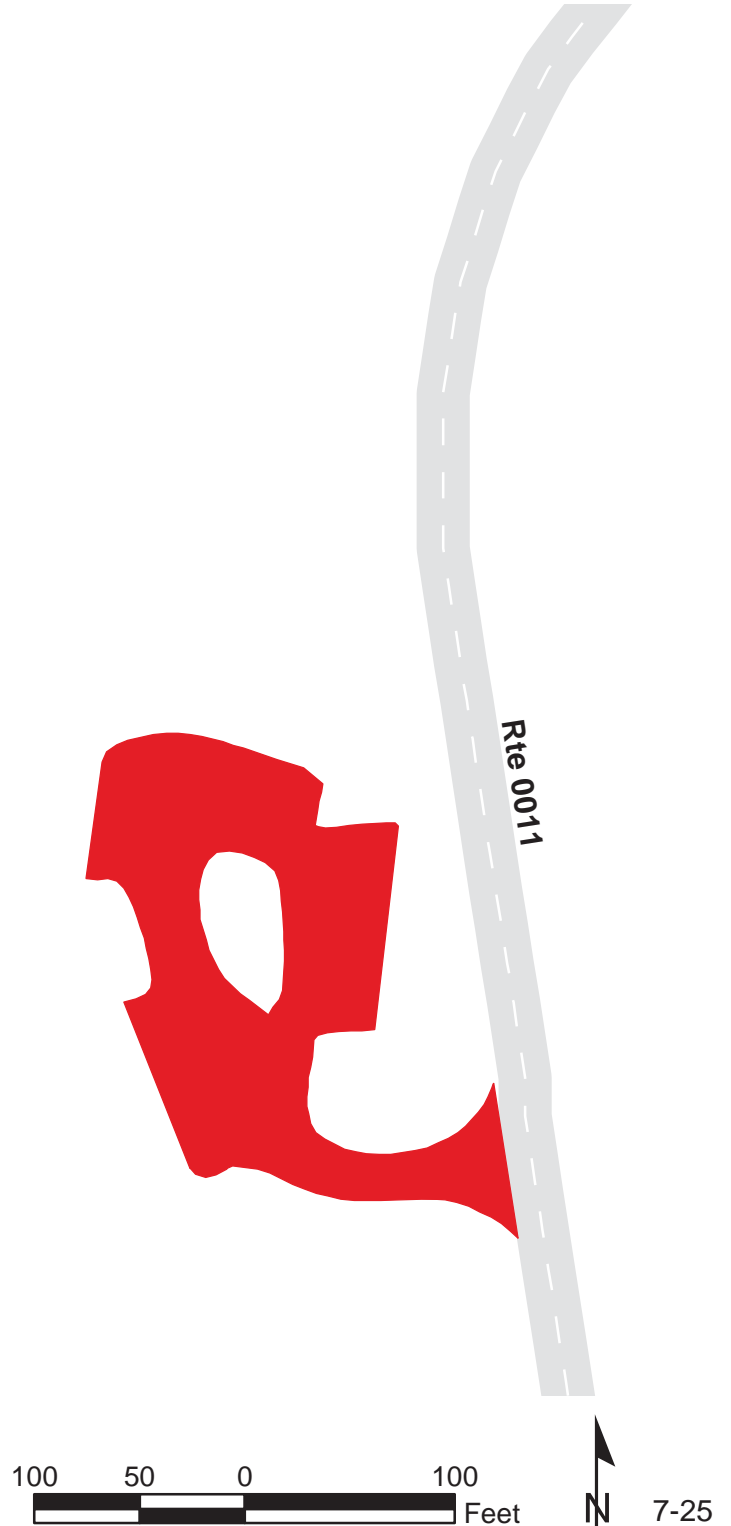
* Lane miles are based on 11' lane widths



Zion National Park
Route 0924
 Emerald Pools Horse Corral
 Adjacent to Route 0011

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0924	Public	2/11/2003	17020	0.29	OC	FAIR / 73

* Lane miles are based on 11' lane widths



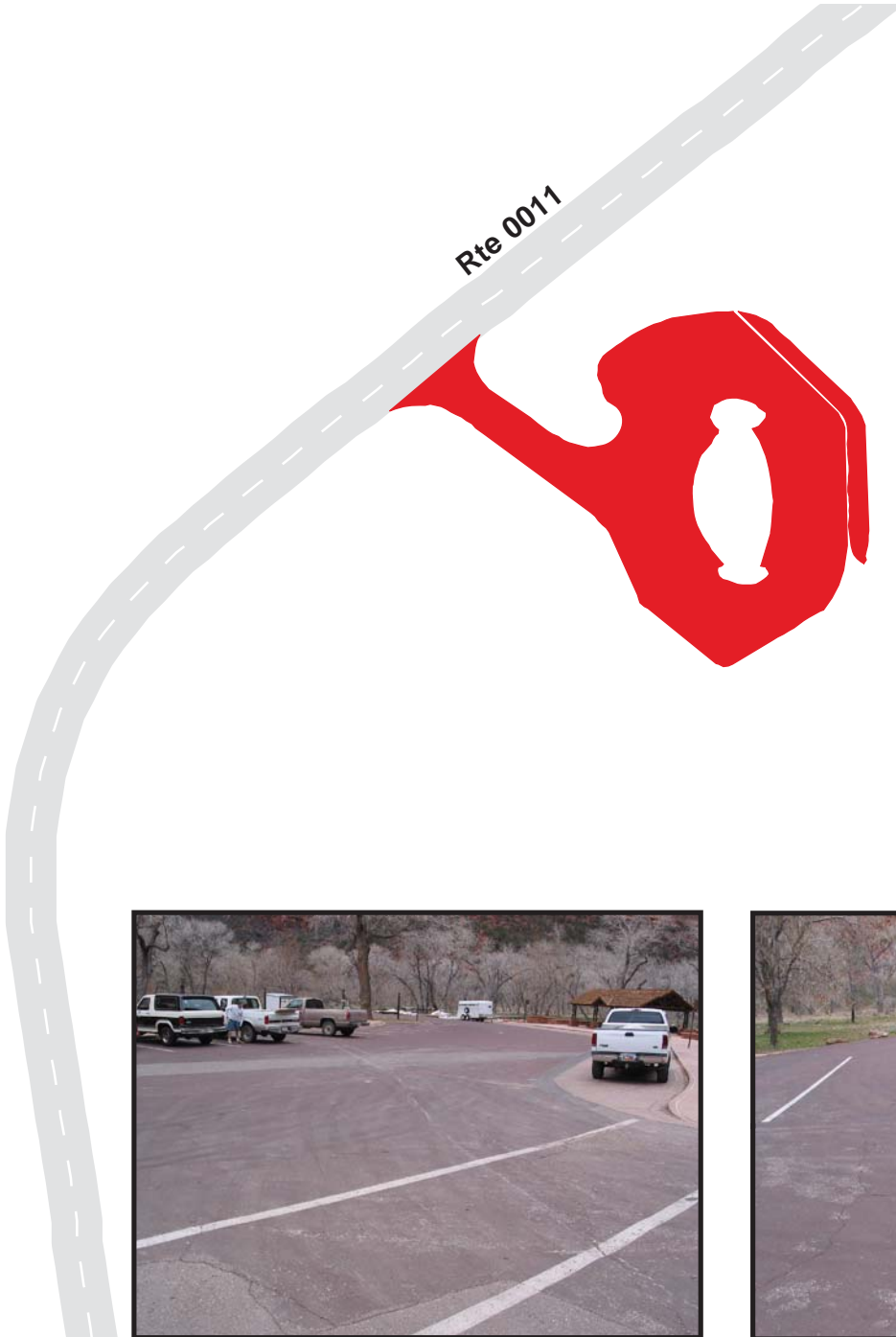
Zion National Park

Route 0925A

Zion Lodge Visitor Parking
Adjacent to Route 0011

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0925A	Public	2/11/2003	39837	0.69	OC	FAIR / 73

* Lane miles are based on 11' lane widths



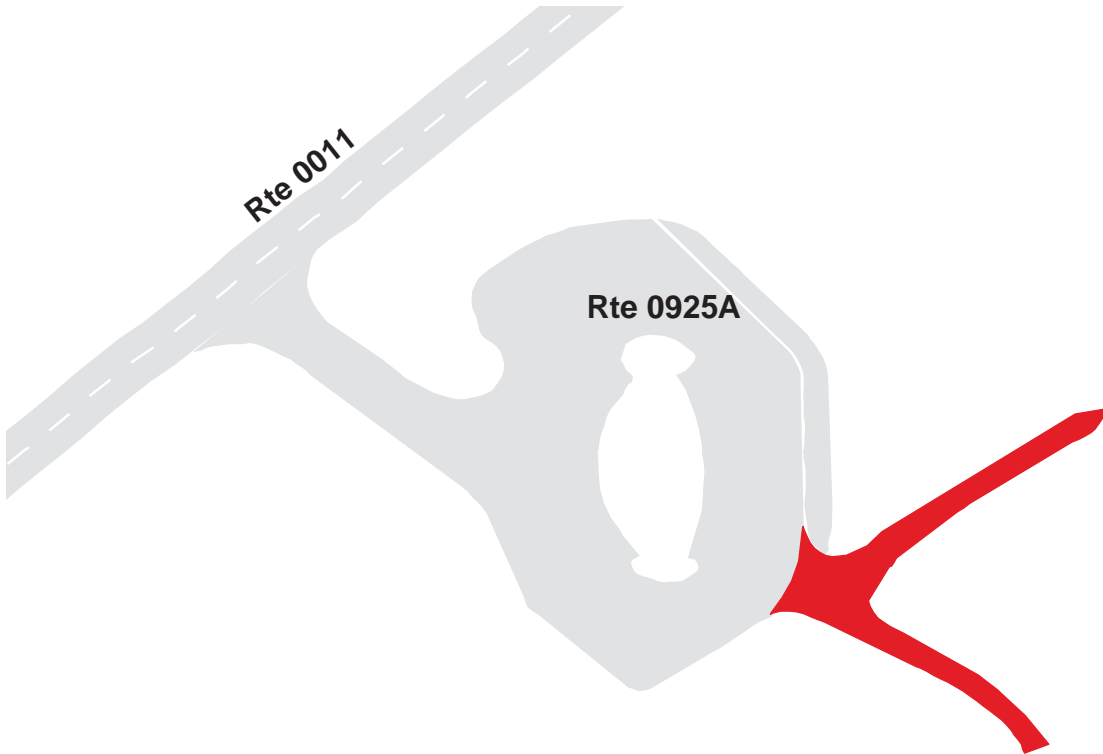
Zion National Park

Route 0925B

Zion Lodge Maintenance Parking
Adjacent to Route 0925A

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0925B	NonPublic	2/11/2003	5607	0.10	OC	FAIR / 73

* Lane miles are based on 11' lane widths



Zion National Park

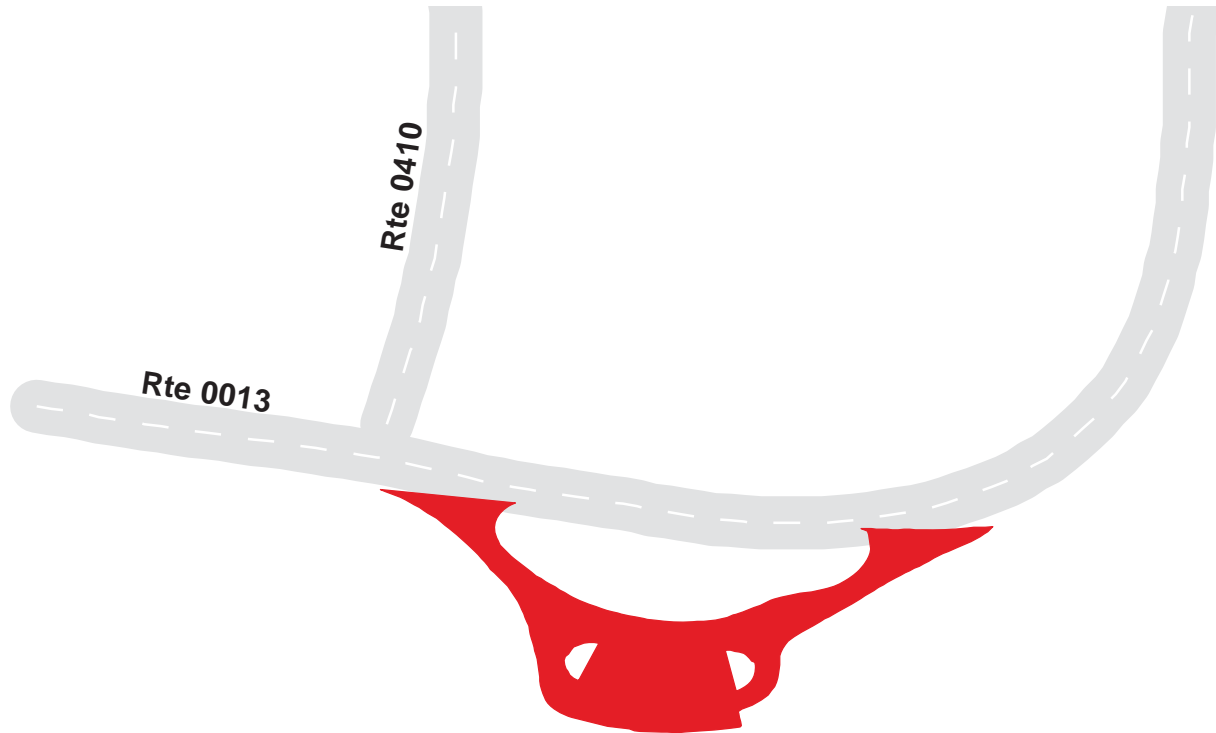
Route 0926

Kolob Visitors Center Parking

Adjacent to Route 0013

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0926	Public	2/11/2003	40738	0.70	OC	FAIR / 73

* Lane miles are based on 11' lane widths



Zion National Park

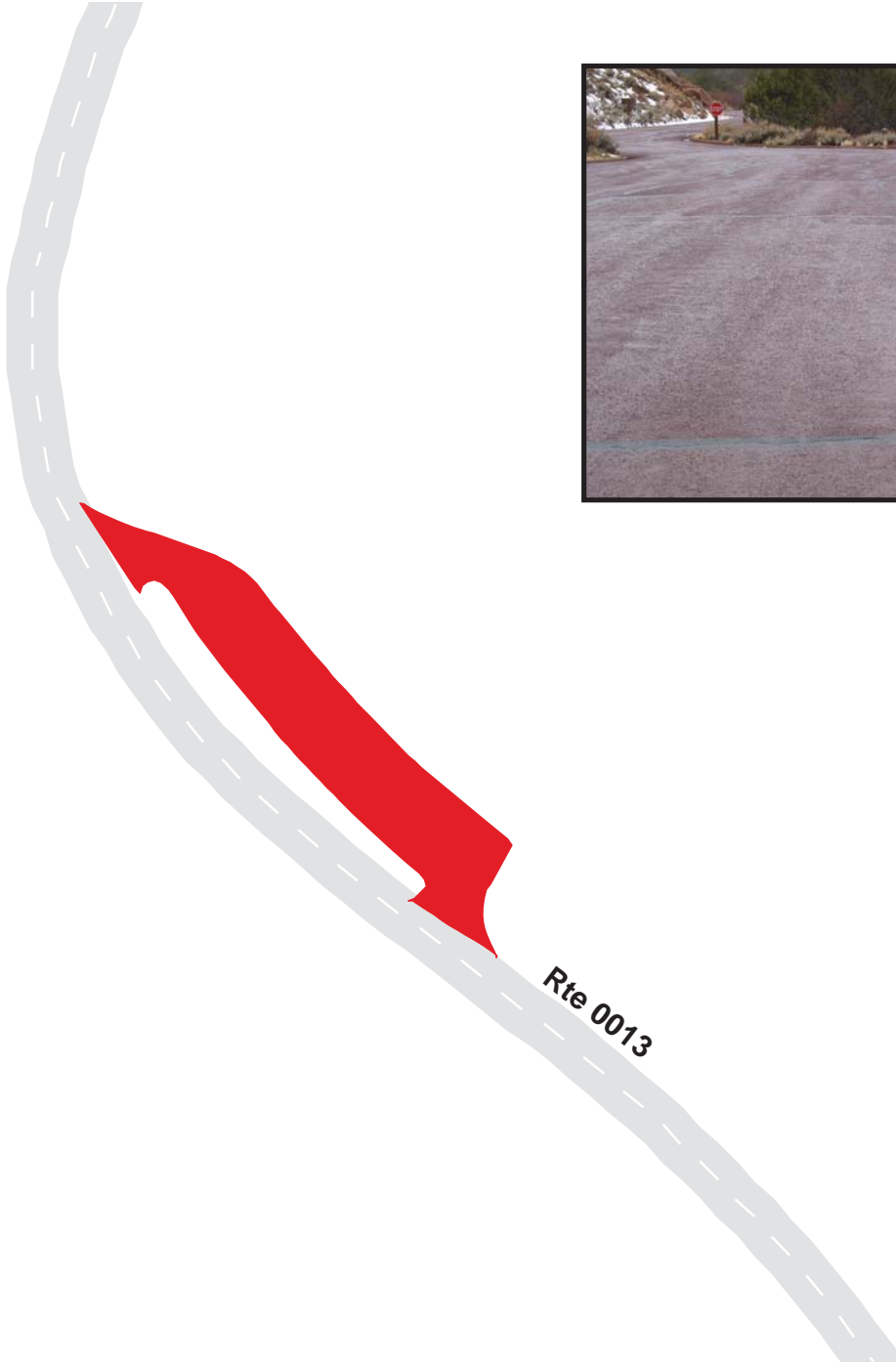
Route 0927

Taylor Creek Trailhead Parking

Adjacent to Route 0013

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0927	Public	2/11/2003	15763	0.27	OC	FAIR / 73

* Lane miles are based on 11' lane widths



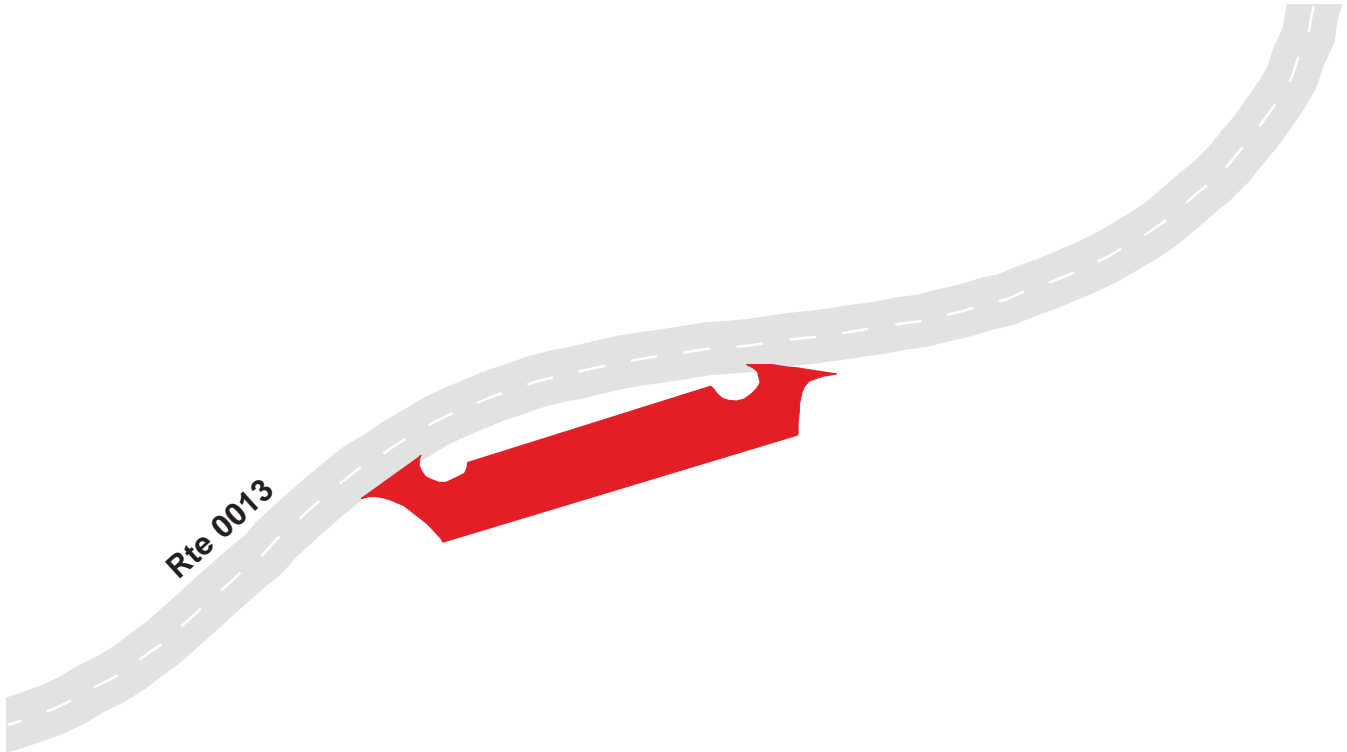
Zion National Park

Route 0928

Parking at MP 3.20
Adjacent to Route 0013

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0928	Public	2/11/2003	15746	0.27	OC	FAIR / 73

* Lane miles are based on 11' lane widths



Zion National Park

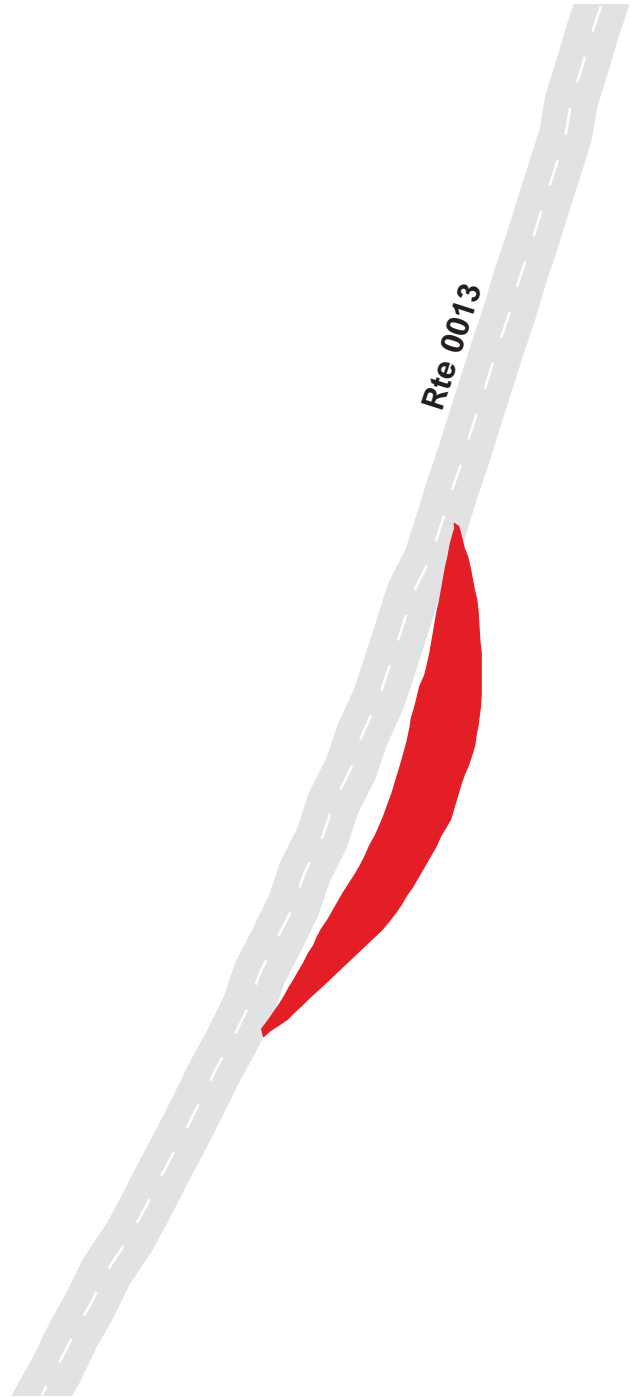
Route 0929

Lee Pass Trailhead Parking

Adjacent to Route 0013

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0929	Public	2/11/2003	4882	0.08	OC	FAIR / 73

* Lane miles are based on 11' lane widths



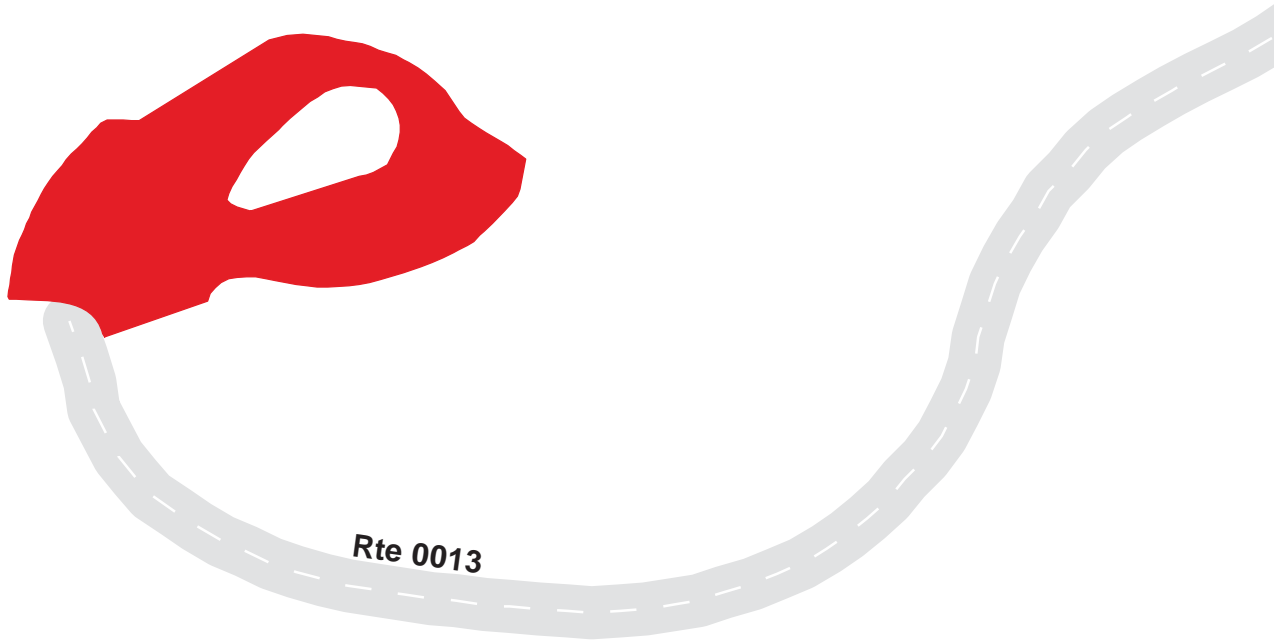
Zion National Park

Route 0930

Timber Creek Overlook Parking
At End of Route 0013

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0930	Public	2/11/2003	30194	0.52	OC	FAIR / 73

* Lane miles are based on 11' lane widths



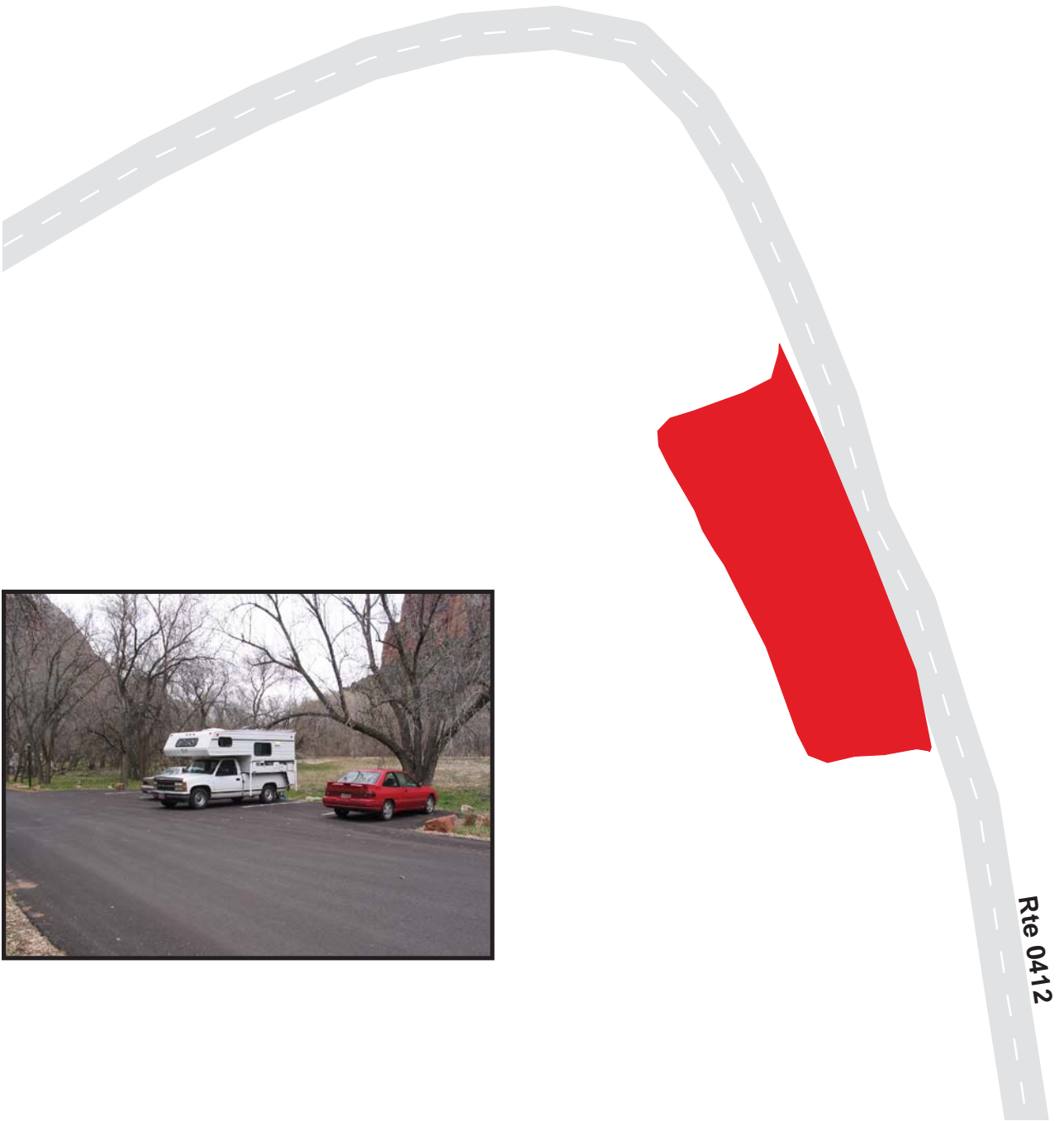
Zion National Park

Route 0931A

Concessionaire / Dorm Parking A
Adjacent to Route 0412 at MP 0.09 on Right

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0931A	NonPublic	2/11/2003	1358	0.02	AS	GOOD / 90

* Lane miles are based on 11' lane widths



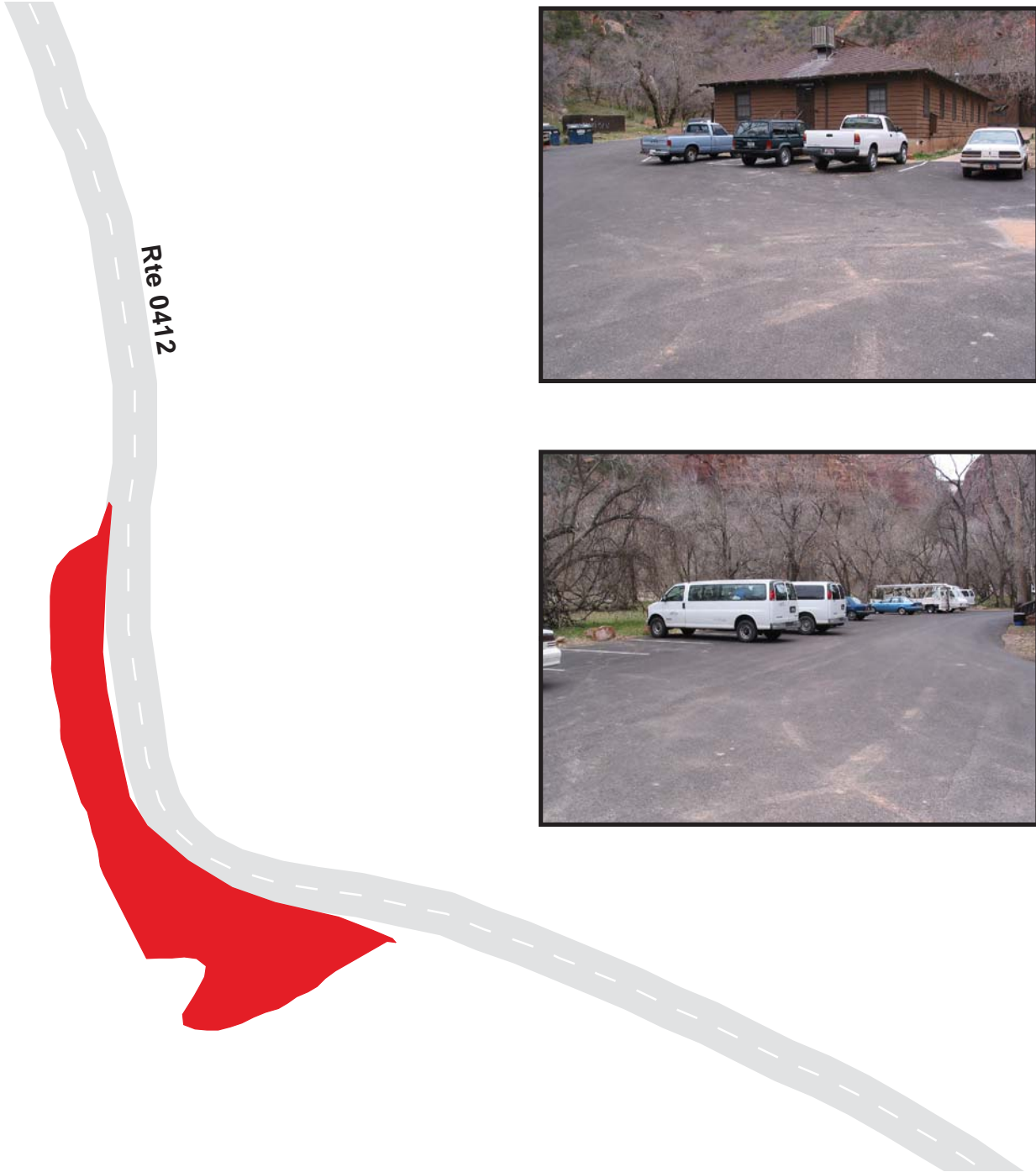
Zion National Park

Route 0931B

Concessionaire / Dorm Parking B
Adjacent to Route 0412 at MP 0.16 on Right

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0931B	NonPublic	2/11/2003	6673	0.11	AS	GOOD / 90

* Lane miles are based on 11' lane widths



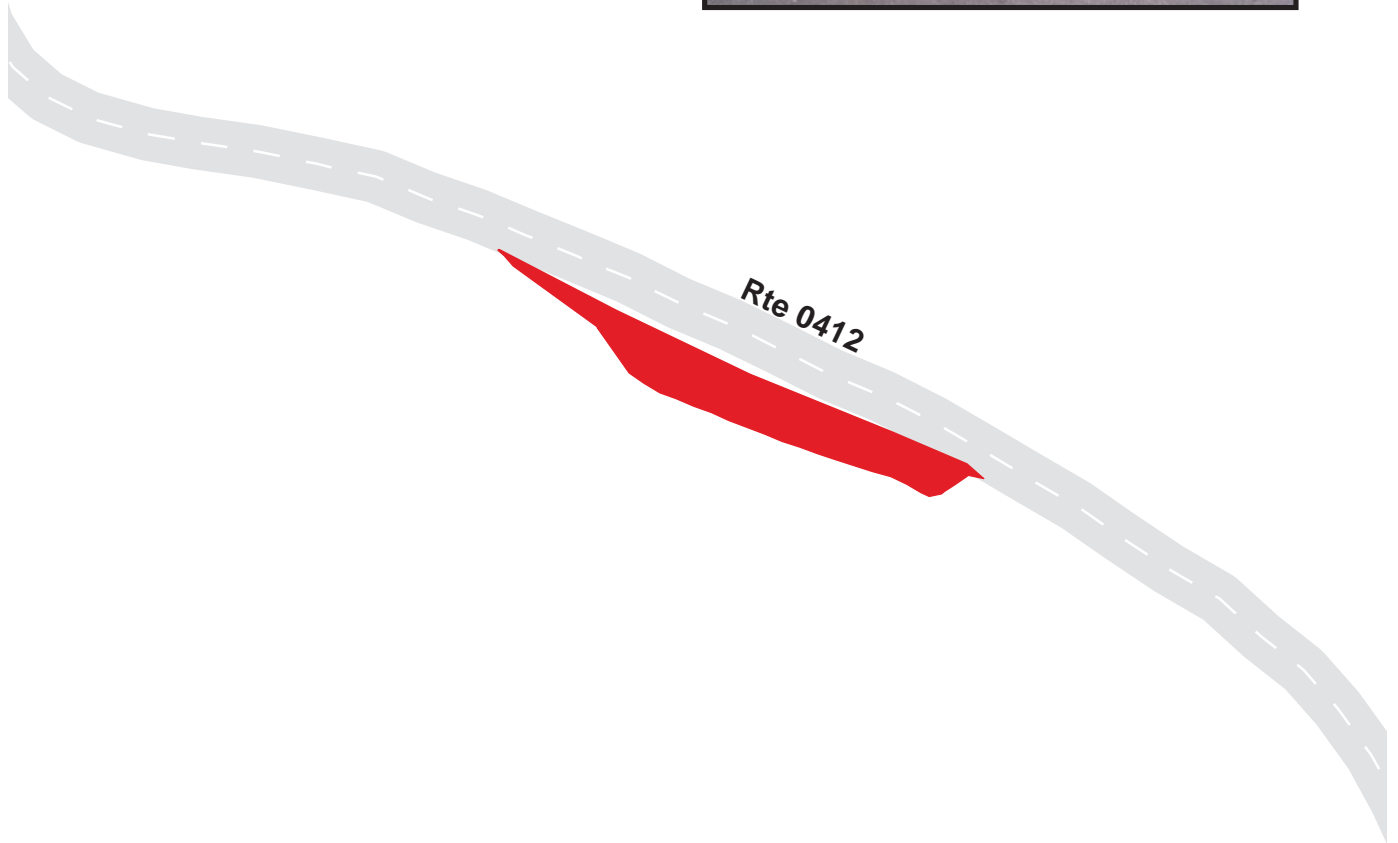
Zion National Park

Route 0931C

Concessionaire / Dorm Parking C
Adjacent to Route 0412 at MP 0.19 on Right

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0931C	NonPublic	2/11/2003	1760	0.03	AS	GOOD / 90

* Lane miles are based on 11' lane widths



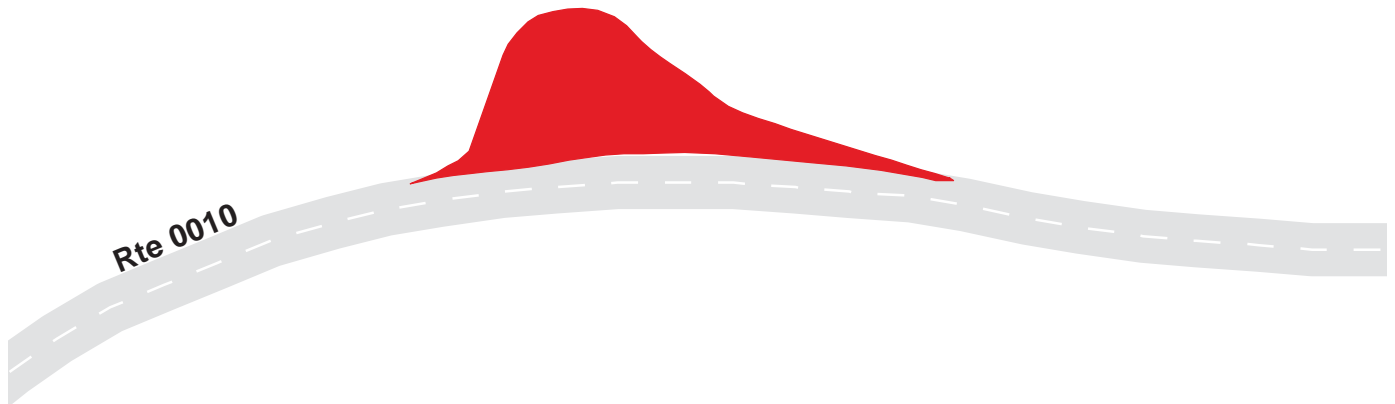
Zion National Park

Route 0932

Canyon Overlook Parking
Adjacent to Route 0010 at MP 6.2 on Left

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0932	Public	2/11/2003	2662	0.05	OC	POOR / 45

* Lane miles are based on 11' lane widths



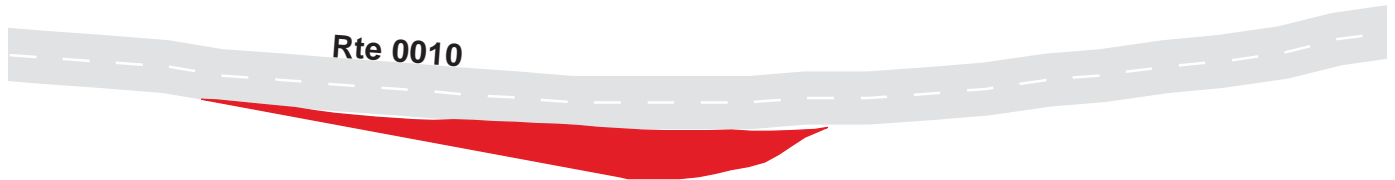
Zion National Park

Route 0933A

Pine Creek Overlook Parking A
Adjacent to Route 0010 at MP 1.6 on Right

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0933A	Public	2/11/2003	1245	0.02	OC	FAIR / 73

* Lane miles are based on 11' lane widths



Zion National Park

Route 0933B

Pine Creek Overlook Parking B
Adjacent to Route 0010 at MP 1.65 on Right

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0933B	Public	2/11/2003	3065	0.05	OC	FAIR / 73

* Lane miles are based on 11' lane widths



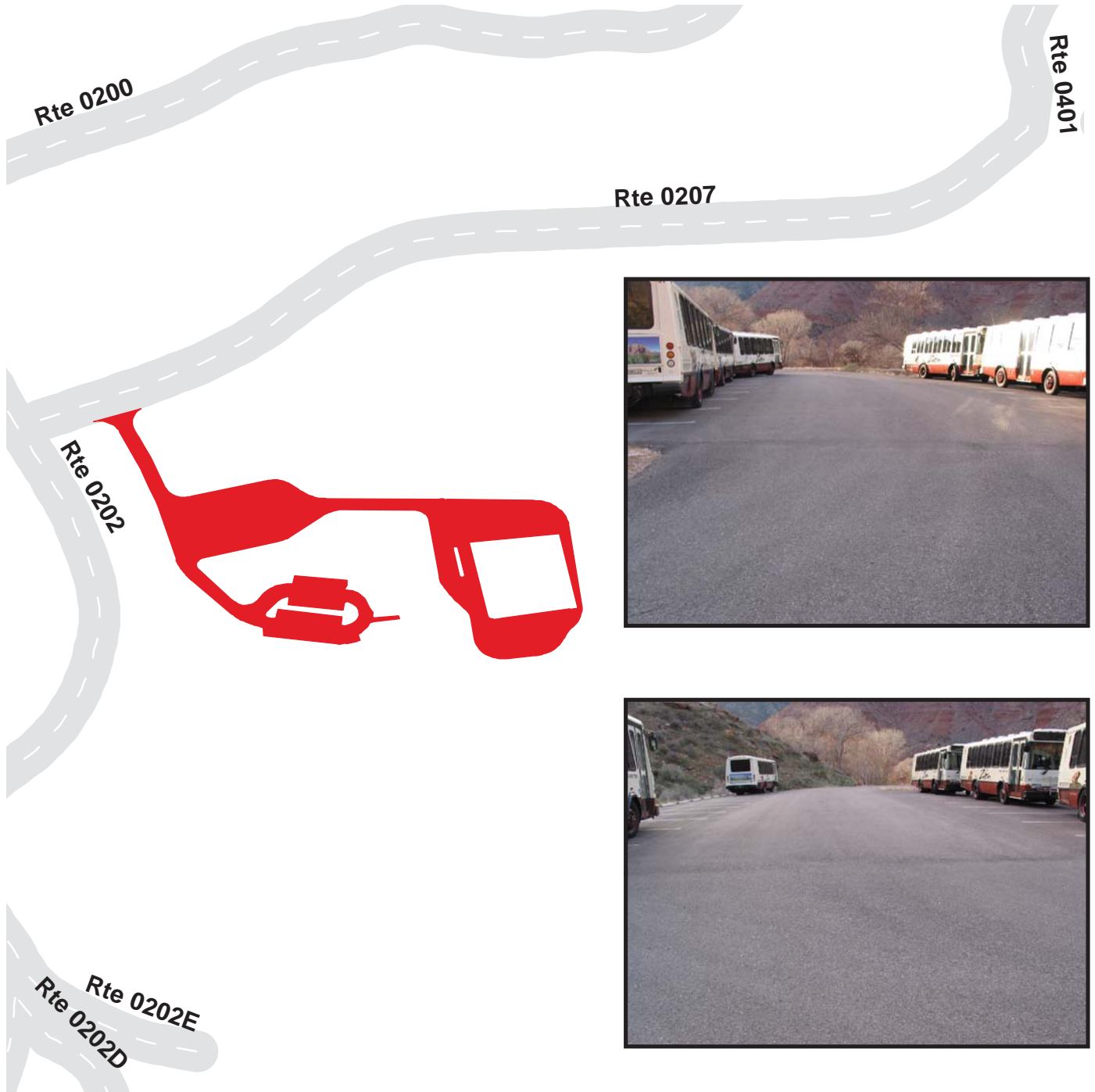
Zion National Park

Route 0934

Shuttle Bus Parking
Adjacent to Route 0207

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0934	NonPublic	2/11/2003	112513	1.94	AS	GOOD / 90

* Lane miles are based on 11' lane widths



Zion National Park

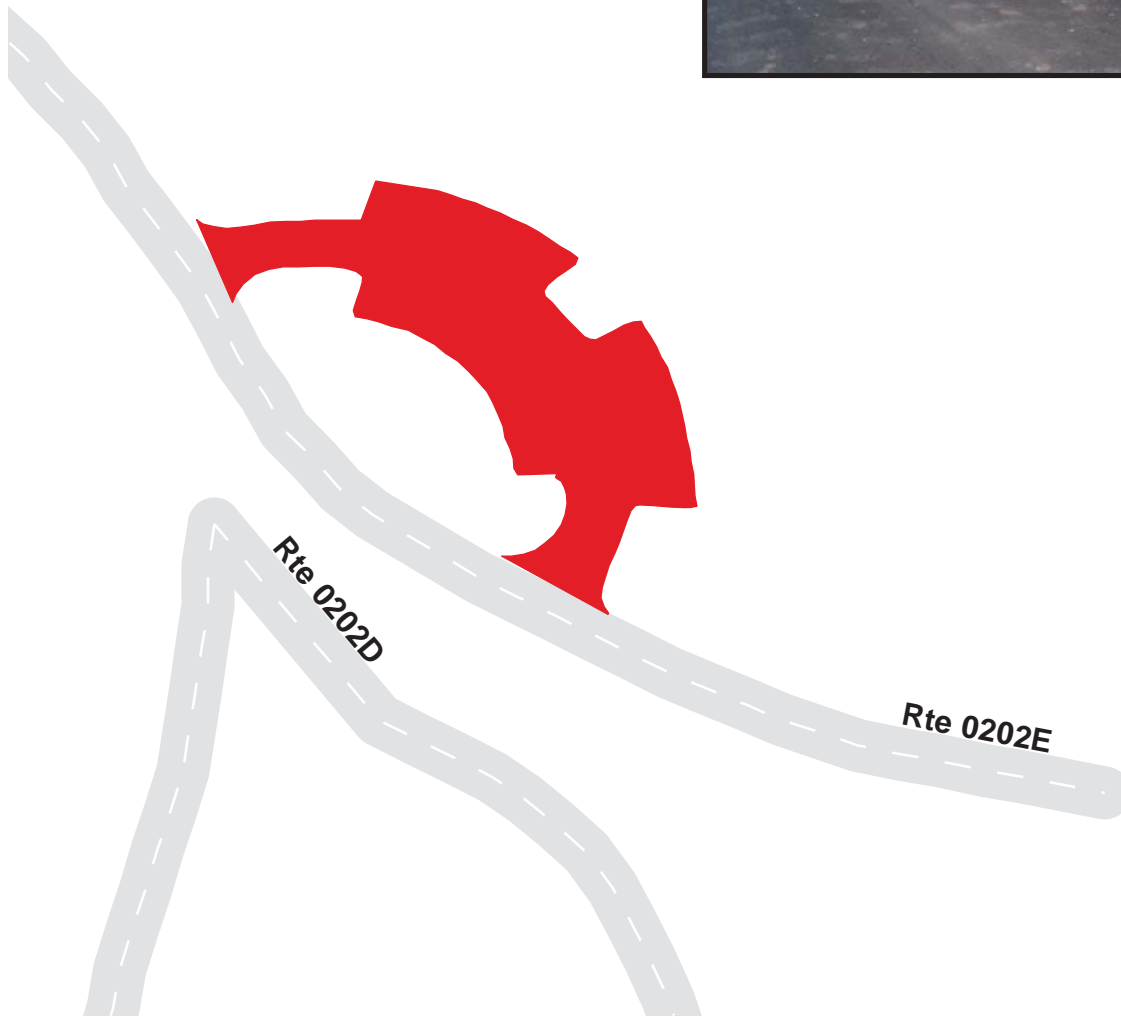
Route 0935

Watchman Campground Walk-in Parking

Adjacent to Route 0202E

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0935	Public	2/11/2003	11011	0.19	AS	GOOD / 90

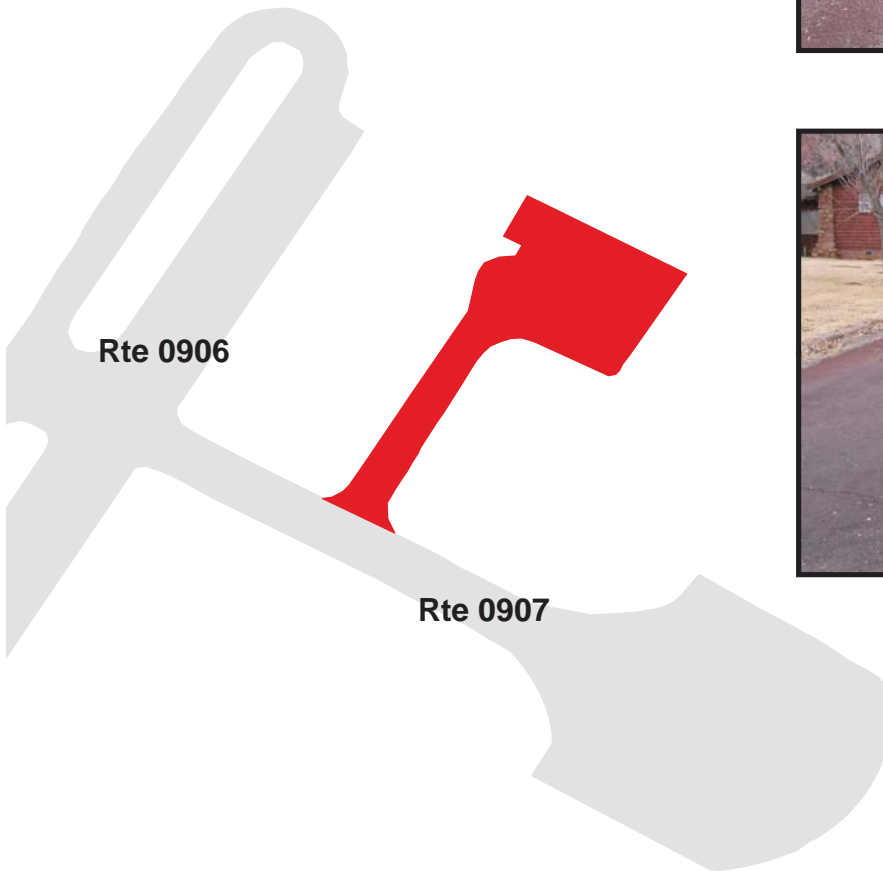
* Lane miles are based on 11' lane widths



Zion National Park
Route 0936
 Zion Nature Center Parking
 Adjacent to Route 0907

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0936	Public	2/11/2003	8066	0.14	OC	POOR / 45

* Lane miles are based on 11' lane widths



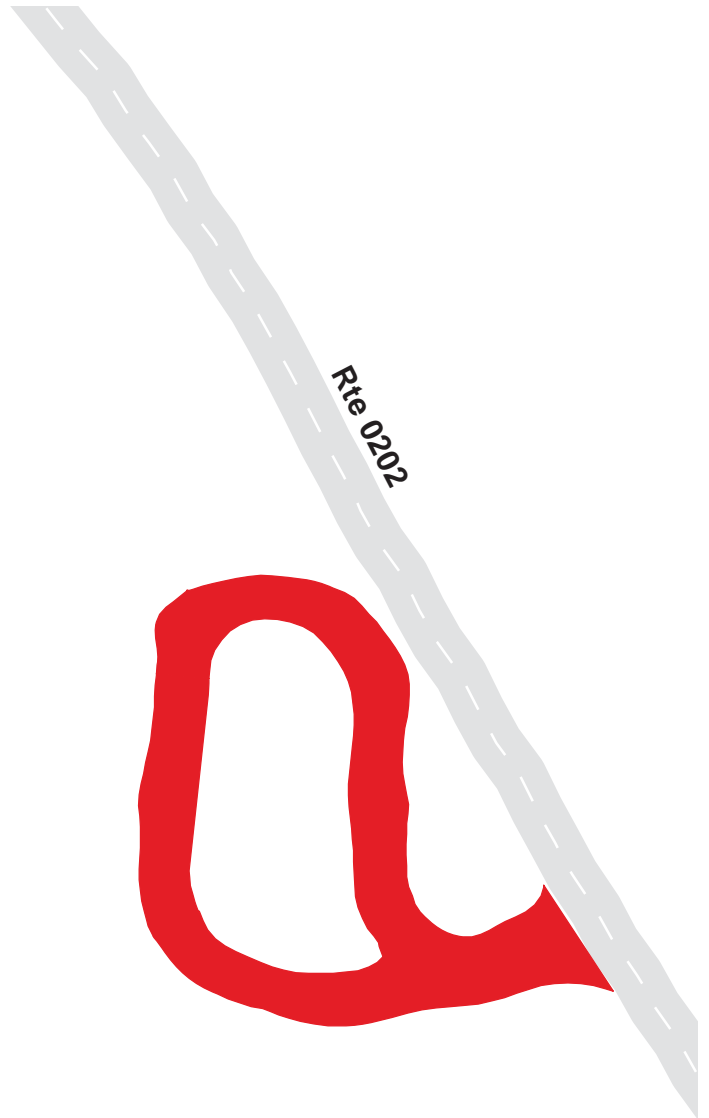
Zion National Park

Route 0937

Zion Canyon Visitor Center Shuttle Bus Parking
Adjacent to Route 0202

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0937	Public	2/11/2003	12352	0.21	OC	FAIR / 73

* Lane miles are based on 11' lane widths



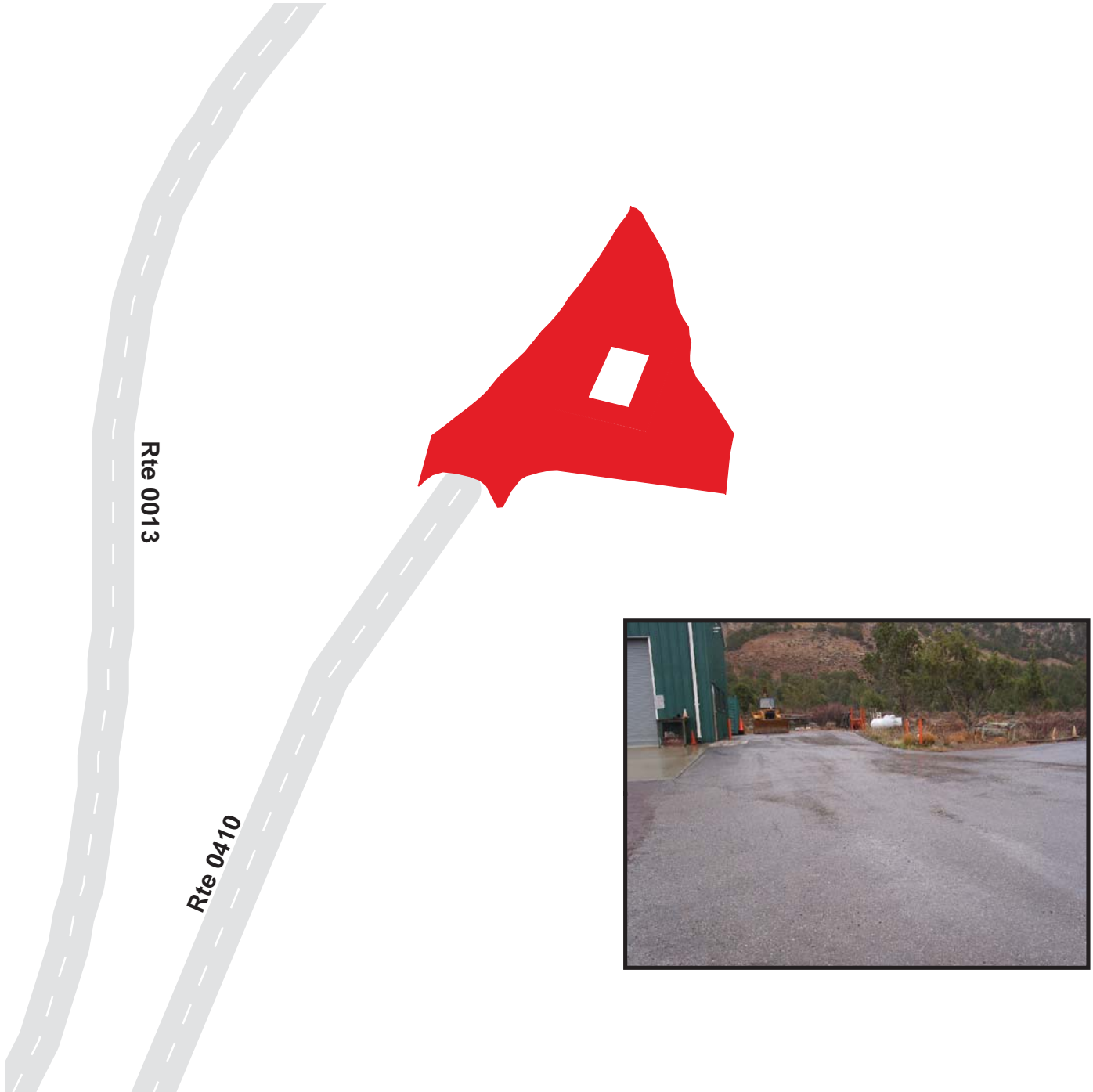
Zion National Park

Route 0938

Kolob Maintenance Parking
Adjacent to Route 0410

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0938	NonPublic	2/11/2003	10884	0.19	AS	GOOD / 90

* Lane miles are based on 11' lane widths



ZION: PARKWIDE MAINTENANCE FEATURES SUMMARY

<i>FEATURE</i>	<i>PARK TOTAL</i>	<i>UNIT</i>
BRIDGE	10	EACH
CATTLE GUARD	0	EACH
CULVERT	273	EACH
CURB	35,307	LINEAR FEET
DROP INLET	32	EACH
GUARD WALL	6,954	LINEAR FEET
GUARDRAIL	2,439	LINEAR FEET
INTERSECTION	208	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	1	EACH
PAVED DITCH	375	LINEAR FEET
PULLOUT	71	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	4	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	0	EACH
TUNNEL	2	EACH
TURNOUT	0	LINEAR FEET

ZION: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0010 ZION-MT CARMEL HIGHWAY	ROUTE 0011 VALLEY FLOOR HIGHWAY	ROUTE 0012 KOLOB TERRACE ROAD SOUTH	ROUTE 0013 KOLOB CANYON ROAD	ROUTE 0014 KOLOB TERRACE ROAD NORTH	ROUTE 0200 SOUTH CAMPGROUND OUTER LOOP	UNIT
BRIDGE	6	1	0	0	0	0	EACH
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	89	50	10	48	14	5	EACH
CURB	4,888	2,746	0	26,448	0	26	LINEAR FEET
DROP INLET	6	13	0	11	0	0	EACH
GUARD WALL	5,797	1,072	0	84	0	0	LINEAR FEET
GUARDRAIL	676	190	0	1,030	0	0	LINEAR FEET
INTERSECTION	18	27	9	12	11	26	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
PARK BOUNDARY	0	0	0	0	1	0	EACH
PAVED DITCH	375	0	0	0	0	0	LINEAR FEET
PULLOUT	36	10	0	17	0	0	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	1	1	0	0	0	0	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TRAFFIC LIGHT	0	0	0	0	0	0	EACH
TUNNEL	2	0	0	0	0	0	EACH
TURNOUT	0	0	0	0	0	0	LINEAR FEET

ZION: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0202 WATCHMAN CAMPGROUND ROAD	ROUTE 0202A WATCHMAN CAMPGROUND LOOP A	ROUTE 0202B WATCHMAN CAMPGROUND LOOP B	ROUTE 0202C WATCHMAN CAMPGROUND LOOP C	ROUTE 0202D WATCHMAN CAMPGROUND LOOP D	ROUTE 0202E WATCHMAN CAMPGROUND LOOPS C & D MAINTENANCE	UNIT
BRIDGE	1	0	0	0	0	0	EACH
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	8	6	12	9	12	1	EACH
CURB	422	0	0	0	0	0	LINEAR FEET
DROP INLET	1	0	0	0	0	0	EACH
GUARD WALL	0	0	0	0	0	0	LINEAR FEET
GUARDRAIL	216	0	0	0	0	0	LINEAR FEET
INTERSECTION	15	4	8	5	3	6	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
PARK BOUNDARY	0	0	0	0	0	0	EACH
PAVED DITCH	0	0	0	0	0	0	LINEAR FEET
PULLOUT	0	0	0	0	0	0	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	0	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TRAFFIC LIGHT	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	EACH
TURNOUT	0	0	0	0	0	0	LINEAR FEET

ZION: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0207 WATCHMAN TRAIL ROAD	ROUTE 0208 EAST RIM TRAIL ACCESS	ROUTE 0400 WATCHMAN CUTOFF ROAD	ROUTE 0401 WATCHMAN RESIDENCE ROAD	ROUTE 0402 OAK CREEK ROAD	ROUTE 0403 OAK CREEK HEADQUARTERS ROAD	UNIT
BRIDGE	0	0	0	1	0	1	EACH
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	3	0	0	0	3	0	EACH
CURB	0	0	0	0	0	0	LINEAR FEET
DROP INLET	0	0	0	0	0	0	EACH
GUARD WALL	0	0	0	0	0	0	LINEAR FEET
GUARDRAIL	0	0	0	185	0	143	LINEAR FEET
INTERSECTION	5	5	4	6	5	5	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
PARK BOUNDARY	0	0	0	0	0	0	EACH
PAVED DITCH	0	0	0	0	0	0	LINEAR FEET
PULLOUT	0	0	0	0	2	0	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	1	0	0	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TRAFFIC LIGHT	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	EACH
TURNOUT	0	0	0	0	0	0	LINEAR FEET

ZION: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0404 VISITOR CENTER RESIDENTIAL ROAD	ROUTE 0407 OAK CREEK RESIDENCE ROAD	ROUTE 0408 OAK CREEK RESIDENCE SPUR ROAD	ROUTE 0409 HORSE CORRAL ROAD	ROUTE 0410 KOLOB SERVICE ROAD	ROUTE 0412 CONCESSIONAIRE / DORM ACCESS ROAD	UNIT
BRIDGE	0	0	0	0	0	0	EACH
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	0	1	0	0	2	0	EACH
CURB	42	0	734	0	0	0	LINEAR FEET
DROP INLET	0	0	1	0	0	0	EACH
GUARD WALL	0	0	0	0	0	0	LINEAR FEET
GUARDRAIL	0	0	0	0	0	0	LINEAR FEET
INTERSECTION	5	3	7	3	6	10	EACH
LOW WATER CROSSING	0	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	0	EACH
PARK BOUNDARY	0	0	0	0	0	0	EACH
PAVED DITCH	0	0	0	0	0	0	LINEAR FEET
PULLOUT	0	0	2	0	4	0	EACH
RAILROAD CROSSING	0	0	0	0	0	0	EACH
RETAINING WALL	0	1	0	0	0	0	EACH
STATE BOUNDARY	0	0	0	0	0	0	EACH
TRAFFIC LIGHT	0	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	0	EACH
TURNOUT	0	0	0	0	0	0	LINEAR FEET

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : ZION-MT CARMEL HIGHWAY

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT SOUTH PRK BOUNDARY PAST EAST PARK ENTRANCE STATION
0.009	0.009	INTERSECTION	RIGHT	RTE 900
0.009	0.048	CURB	RIGHT	
0.054	0.054	INTERSECTION	RIGHT	RTE 900
0.094	0.108	CURB	LEFT	
0.147	0.147	INTERSECTION	RIGHT	RTE 202
0.176	0.176	INTERSECTION	RIGHT	
0.290	0.361	PAVED DITCH	RIGHT	
0.362	0.413	CURB	LEFT	
0.422	0.422	INTERSECTION	RIGHT	RTE 200
0.429	0.489	CURB	LEFT	
0.488	0.516	PULLOUT	RIGHT	
0.628	0.628	INTERSECTION	LEFT	RTE 402
0.681	0.710	GUARDRAIL	LEFT	
0.683	0.710	BRIDGE	N/A	
0.685	0.711	GUARDRAIL	RIGHT	
0.833	0.876	CURB	LEFT	
0.883	0.883	INTERSECTION	LEFT	RTE 911
0.886	0.938	CURB	LEFT	
1.275	1.275	INTERSECTION	LEFT	RTE 404
1.378	1.378	CULVERT	N/A	
1.460	1.460	INTERSECTION	LEFT	UNPAVED ROUTE
1.476	1.513	GUARDRAIL	RIGHT	
1.477	1.514	BRIDGE	N/A	
1.480	1.516	GUARDRAIL	LEFT	
1.520	1.520	INTERSECTION	LEFT	

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : ZION-MT CARMEL HIGHWAY

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
1.534	1.534	INTERSECTION	LEFT	RTE 011
1.570	1.590	PULLOUT	RIGHT	
1.576	1.576	CULVERT	N/A	
1.634	1.649	PULLOUT	RIGHT	
1.656	1.673	PULLOUT	RIGHT	
1.707	1.707	CULVERT	N/A	
1.754	1.754	CULVERT	N/A	
1.802	1.802	CULVERT	N/A	
1.847	1.847	INTERSECTION	RIGHT	
1.903	1.903	CULVERT	N/A	
1.959	1.986	PULLOUT	RIGHT	
2.018	2.045	PULLOUT	RIGHT	
2.019	2.040	PULLOUT	LEFT	
2.049	2.080	BRIDGE	N/A	
2.263	2.289	GUARD WALL	RIGHT	
2.315	2.315	CULVERT	N/A	
2.400	2.422	GUARD WALL	RIGHT	
2.422	2.456	GUARD WALL	LEFT	
2.486	2.486	DROP INLET	RIGHT	
2.543	2.543	CULVERT	N/A	
2.592	2.610	GUARD WALL	LEFT	
2.605	2.605	CULVERT	N/A	
2.632	2.662	GUARD WALL	LEFT	
2.649	2.649	CULVERT	N/A	
2.676	2.710	GUARD WALL	LEFT	
2.721	2.780	GUARD WALL	LEFT	
2.732	2.732	CULVERT	N/A	

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : ZION-MT CARMEL HIGHWAY

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
2.798	2.836	GUARD WALL	LEFT	
2.814	2.814	CULVERT	N/A	
2.851	2.860	GUARD WALL	LEFT	
2.874	2.915	GUARD WALL	LEFT	
2.878	2.910	PULLOUT	RIGHT	
2.900	2.900	CULVERT	N/A	
2.928	2.935	GUARD WALL	LEFT	
2.950	3.139	GUARD WALL	LEFT	
2.988	2.988	CULVERT	N/A	
3.073	3.073	CULVERT	N/A	
3.198	3.198	DROP INLET	RIGHT	
3.201	3.201	CULVERT	N/A	
3.264	3.303	PULLOUT	RIGHT	
3.265	3.306	GUARD WALL	LEFT	
3.382	3.389	GUARD WALL	RIGHT	
3.406	3.414	GUARD WALL	RIGHT	
3.419	3.419	CULVERT	N/A	
3.431	3.439	GUARD WALL	RIGHT	
3.456	3.464	GUARD WALL	RIGHT	
3.482	3.489	GUARD WALL	RIGHT	
3.505	3.541	GUARD WALL	RIGHT	
3.606	3.678	GUARD WALL	RIGHT	
3.805	3.813	GUARD WALL	LEFT	
3.888	3.911	GUARD WALL	LEFT	
3.905	3.905	CULVERT	N/A	
3.947	3.967	PULLOUT	LEFT	
3.947	3.967	PULLOUT	RIGHT	

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : ZION-MT CARMEL HIGHWAY

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
3.969	3.969	CULVERT	N/A	
4.058	4.127	PULLOUT	RIGHT	
4.062	4.062	CULVERT	N/A	
4.123	4.170	GUARD WALL	LEFT	
4.197	4.239	PULLOUT	RIGHT	
4.420	4.448	GUARD WALL	RIGHT	
4.437	4.437	CULVERT	N/A	
4.464	4.478	GUARD WALL	RIGHT	
4.500	4.629	GUARD WALL	RIGHT	
4.535	4.561	RETAINING WALL	LEFT	
4.703	4.748	GUARD WALL	LEFT	
4.808	4.832	GUARD WALL	LEFT	
4.837	4.837	CULVERT	N/A	
4.916	4.985	GUARD WALL	LEFT	
4.977	6.046	TUNNEL	N/A	
6.052	6.074	BRIDGE	N/A	
6.066	6.066	INTERSECTION	LEFT	
6.092	6.092	INTERSECTION	RIGHT	RTE 912
6.154	6.172	PULLOUT	RIGHT	
6.187	6.187	INTERSECTION	LEFT	
6.206	6.206	CULVERT	N/A	
6.226	6.296	PULLOUT	RIGHT	
6.445	6.445	CULVERT	N/A	
6.465	6.465	CULVERT	N/A	
6.569	6.593	PULLOUT	LEFT	
6.674	6.674	CULVERT	N/A	
6.698	6.698	CULVERT	N/A	

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : ZION-MT CARMEL HIGHWAY

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
6.733	6.733	CULVERT	N/A	
6.779	6.796	GUARD WALL	RIGHT	
6.832	6.832	CULVERT	N/A	
6.881	6.881	CULVERT	N/A	
6.966	6.966	CULVERT	N/A	
7.060	7.060	CULVERT	N/A	
7.087	7.087	CULVERT	N/A	
7.122	7.122	CULVERT	N/A	
7.147	7.147	CULVERT	N/A	
7.171	7.171	CULVERT	N/A	
7.244	7.244	CULVERT	N/A	
7.302	7.302	CULVERT	N/A	
7.329	7.466	CURB	RIGHT	
7.332	7.454	CURB	LEFT	
7.337	7.355	PULLOUT	LEFT	
7.338	7.338	CULVERT	N/A	
7.341	7.360	PULLOUT	RIGHT	
7.364	7.460	TUNNEL	N/A	
7.477	7.477	CULVERT	N/A	
7.538	7.538	CULVERT	N/A	
7.602	7.602	CULVERT	N/A	
7.630	7.630	CULVERT	N/A	
7.733	7.733	CULVERT	N/A	
7.736	7.762	PULLOUT	LEFT	
7.769	7.769	CULVERT	N/A	
7.859	7.898	PULLOUT	RIGHT	
7.919	7.919	CULVERT	N/A	

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : ZION-MT CARMEL HIGHWAY

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
7.951	7.951	CULVERT	N/A	
7.980	7.980	CULVERT	N/A	
8.013	8.013	CULVERT	N/A	
8.037	8.037	CULVERT	N/A	
8.066	8.102	PULLOUT	RIGHT	
8.071	8.071	CULVERT	N/A	
8.090	8.090	CULVERT	N/A	
8.137	8.137	CULVERT	N/A	
8.291	8.291	CULVERT	N/A	
8.326	8.326	INTERSECTION	RIGHT	
8.406	8.406	CULVERT	N/A	
8.578	8.578	CULVERT	N/A	
8.578	8.603	PULLOUT	RIGHT	
8.719	8.810	CURB	RIGHT	
8.752	8.752	CULVERT	N/A	
8.814	8.851	PULLOUT	RIGHT	
8.882	8.882	CULVERT	N/A	
9.021	9.021	CULVERT	N/A	
9.067	9.067	CULVERT	N/A	
9.103	9.103	CULVERT	N/A	
9.191	9.215	PULLOUT	RIGHT	
9.242	9.242	CULVERT	N/A	
9.294	9.321	PULLOUT	RIGHT	
9.298	9.298	CULVERT	N/A	
9.322	9.322	CULVERT	N/A	
9.361	9.361	CULVERT	N/A	
9.404	9.425	PULLOUT	RIGHT	

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : ZION-MT CARMEL HIGHWAY

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
9.478	9.478	DROP INLET	RIGHT	
9.478	9.593	CURB	RIGHT	
9.480	9.480	CULVERT	N/A	
9.559	9.559	CULVERT	N/A	
9.561	9.592	PULLOUT	LEFT	
9.567	9.567	CULVERT	N/A	
9.634	9.634	CULVERT	N/A	
9.708	9.708	CULVERT	N/A	
9.742	9.742	CULVERT	N/A	
9.767	9.767	CULVERT	N/A	
9.771	9.801	PULLOUT	RIGHT	
9.825	9.825	CULVERT	N/A	
9.825	9.825	DROP INLET	RIGHT	
9.918	10.006	CURB	RIGHT	
9.922	9.922	CULVERT	N/A	
9.997	10.016	PULLOUT	RIGHT	
10.075	10.131	BRIDGE	N/A	
10.100	10.100	DROP INLET	LEFT	
10.209	10.209	CULVERT	N/A	
10.273	10.273	CULVERT	N/A	
10.299	10.299	CULVERT	N/A	
10.387	10.387	CULVERT	N/A	
10.423	10.451	PULLOUT	LEFT	
10.506	10.506	CULVERT	N/A	
10.524	10.524	CULVERT	N/A	
10.555	10.555	CULVERT	N/A	
10.621	10.621	CULVERT	N/A	

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : ZION-MT CARMEL HIGHWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
10.629	10.648	PULLOUT	LEFT	
10.763	10.763	CULVERT	N/A	
10.939	10.939	CULVERT	N/A	
11.069	11.092	CURB	LEFT	
11.096	11.140	PULLOUT	LEFT	
11.140	11.170	BRIDGE	N/A	
11.169	11.234	CURB	RIGHT	
11.174	11.174	DROP INLET	RIGHT	
11.216	11.231	PULLOUT	RIGHT	
11.314	11.314	INTERSECTION	LEFT	UNPAVED ROUTE
11.348	11.348	INTERSECTION	LEFT	RTE 208
11.376	11.420	PULLOUT	RIGHT	
11.377	11.403	CURB	LEFT	
11.423	11.423	CULVERT	N/A	
11.546	11.546	CULVERT	N/A	
11.719	11.719	CULVERT	N/A	
11.739	11.739	CULVERT	N/A	
11.983	11.983	CULVERT	N/A	
11.990	12.012	PULLOUT	RIGHT	
12.010	12.028	PULLOUT	LEFT	
12.070	12.070			ROUTE ENDS AT EAST PARK BOUNDARY

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0011 : VALLEY FLOOR HIGHWAY

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT RTE 010 MP 157 LEFT
0.001	0.001	INTERSECTION	RIGHT	RTE 010
0.007	0.007	INTERSECTION	LEFT	RTE 010
0.014	0.014	INTERSECTION	LEFT	
0.031	0.173	CURB	LEFT	
0.033	0.033	INTERSECTION	LEFT	
0.038	0.038	CULVERT	N/A	
0.051	0.051	CULVERT	N/A	
0.069	0.088	CURB	RIGHT	
0.097	0.097	DROP INLET	LEFT	
0.098	0.098	CULVERT	N/A	
0.173	0.173	CULVERT	N/A	
0.242	0.242	CULVERT	N/A	
0.323	0.323	CULVERT	N/A	
0.340	0.340	CULVERT	N/A	
0.552	0.552	CULVERT	N/A	
0.599	0.599	CULVERT	N/A	
0.650	0.650	CULVERT	N/A	
0.683	0.683	DROP INLET	RIGHT	
0.698	0.734	PULLOUT	RIGHT	
0.746	0.746	CULVERT	N/A	
0.751	0.751	DROP INLET	RIGHT	
0.817	1.020	GUARD WALL	LEFT	
0.822	0.822	DROP INLET	RIGHT	
0.823	0.823	CULVERT	N/A	
0.950	0.998	PULLOUT	LEFT	
0.973	0.973	CULVERT	N/A	

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0011 : VALLEY FLOOR HIGHWAY

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.977	0.977	DROP INLET	RIGHT	
0.999	0.999	CULVERT	N/A	
1.035	1.035	CULVERT	N/A	
1.123	1.140	RETAINING WALL	LEFT	
1.197	1.197	CULVERT	N/A	
1.201	1.201	DROP INLET	RIGHT	
1.301	1.301	CULVERT	N/A	
1.350	1.580	CURB	RIGHT	
1.430	1.430	INTERSECTION	LEFT	
1.487	1.487	CULVERT	N/A	
1.618	1.618	INTERSECTION	RIGHT	RTE 915
1.619	1.619	INTERSECTION	LEFT	RTE 409
1.627	1.650	CURB	RIGHT	
1.636	1.636	INTERSECTION	LEFT	RTE 409
1.654	1.654	INTERSECTION	RIGHT	RTE 915
1.776	1.776	CULVERT	N/A	
1.880	1.880	CULVERT	N/A	
1.896	1.934	PULLOUT	LEFT	
2.226	2.226	CULVERT	N/A	
2.284	2.284	INTERSECTION	RIGHT	RTE 916
2.329	2.329	INTERSECTION	RIGHT	RTE 916
2.444	2.444	INTERSECTION	RIGHT	RTE 412
2.607	2.607	INTERSECTION	LEFT	RTE 924
2.610	2.610	INTERSECTION	RIGHT	RTE 917
2.773	2.773	INTERSECTION	RIGHT	RTE 925
2.849	2.873	PULLOUT	LEFT	
3.084	3.084	DROP INLET	RIGHT	

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0011 : VALLEY FLOOR HIGHWAY

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
3.085	3.085	CULVERT	N/A	
3.210	3.210	CULVERT	N/A	
3.303	3.303	INTERSECTION	RIGHT	
3.324	3.324	INTERSECTION	LEFT	RTE 918
3.326	3.326	INTERSECTION	RIGHT	
3.344	3.344	INTERSECTION	RIGHT	RTE 919
3.394	3.394	INTERSECTION	RIGHT	RTE 919
3.455	3.455	CULVERT	N/A	
3.563	3.563	CULVERT	N/A	
3.681	3.681	CULVERT	N/A	
3.843	3.843	CULVERT	N/A	
3.908	3.908	CULVERT	N/A	
3.943	3.969	PULLOUT	RIGHT	
3.972	3.972	CULVERT	N/A	
4.064	4.064	CULVERT	N/A	
4.128	4.128	CULVERT	N/A	
4.262	4.262	CULVERT	N/A	
4.290	4.290	CULVERT	N/A	
4.349	4.349	CULVERT	N/A	
4.459	4.476	GUARDRAIL	LEFT	
4.459	4.478	GUARDRAIL	RIGHT	
4.462	4.472	BRIDGE	N/A	
4.492	4.507	CURB	LEFT	
4.497	4.522	CURB	RIGHT	
4.526	4.526	INTERSECTION	RIGHT	RTE 920
4.539	4.539	INTERSECTION	RIGHT	RTE 920
4.547	4.547	DROP INLET	RIGHT	

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0011 : VALLEY FLOOR HIGHWAY

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
4.607	4.607	CULVERT	N/A	
4.609	4.609	DROP INLET	RIGHT	
4.634	4.634	CULVERT	N/A	
4.641	4.662	PULLOUT	RIGHT	
4.702	4.702	CULVERT	N/A	
4.747	4.747	INTERSECTION	LEFT	RTE 921
4.754	4.754	CULVERT	N/A	
4.754	4.754	DROP INLET	RIGHT	
4.755	4.788	CURB	LEFT	
4.791	4.791	INTERSECTION	LEFT	RTE 921
4.800	4.800	DROP INLET	RIGHT	
4.888	4.888	DROP INLET	RIGHT	
5.019	5.019	INTERSECTION	LEFT	RTE 922
5.064	5.064	INTERSECTION	LEFT	RTE 922
5.072	5.072	DROP INLET	RIGHT	
5.085	5.139	PULLOUT	RIGHT	
5.149	5.149	CULVERT	N/A	
5.346	5.346	CULVERT	N/A	
5.366	5.366	CULVERT	N/A	
5.401	5.401	CULVERT	N/A	
5.460	5.460	CULVERT	N/A	
5.516	5.556	PULLOUT	LEFT	
5.557	5.557	CULVERT	N/A	
5.586	5.586	CULVERT	N/A	
5.629	5.654	PULLOUT	LEFT	
5.672	5.672	CULVERT	N/A	
5.746	5.746	CULVERT	N/A	

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0011 : VALLEY FLOOR HIGHWAY

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
5.791	5.808	PULLOUT	LEFT	
5.891	5.891	CULVERT	N/A	
5.986	5.986	CULVERT	N/A	
6.039	6.039	CULVERT	N/A	
6.116	6.142	CURB	RIGHT	
6.136	6.143	CURB	LEFT	
6.140	6.140			ROUTE ENDS AT ROUTE 923
6.140	6.140	INTERSECTION	LEFT	END AT RTE 923

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0012 : KOLOB TERRACE ROAD SOUTH

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT WEST PARK BOUNDARY (SOUTH)
0.094	0.094	CULVERT	N/A	
0.438	0.438	INTERSECTION	RIGHT	RIGHT FORK TRILHEAD PARKING
0.512	0.512	CULVERT	N/A	
0.569	0.569	CULVERT	N/A	
0.729	0.729	CULVERT	N/A	
0.783	0.783	INTERSECTION	RIGHT	GRAPEVINE TRAILHEAD PARKING
1.038	1.038	CULVERT	N/A	
1.131	1.131	CULVERT	N/A	
1.172	1.172	INTERSECTION	LEFT	RTE 206
1.717	1.717	INTERSECTION	RIGHT	LEFT FORK TRAILHEAD PARKING
2.178	2.178	CULVERT	N/A	
2.352	2.352	CULVERT	N/A	
2.698	2.698	CULVERT	N/A	
2.874	2.874	INTERSECTION	LEFT	PRIVATE DRIVE
2.984	2.984	INTERSECTION	LEFT	PRIVATE DRIVE
3.090	3.090	CULVERT	N/A	
3.340	3.340	INTERSECTION	RIGHT	UNPAVED ROAD
3.586	3.586	INTERSECTION	LEFT	
3.762	3.762	INTERSECTION	RIGHT	PRIVATE DRIVE
4.040	4.040			ROUTE ENDS AT WEST PARK BOUNDARY (NORTH)

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0013 : KOLOB CANYON ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT WEST PARK BOUNDARY
0.009	0.009	INTERSECTION	RIGHT	UNPAVED ROAD
0.036	0.036	INTERSECTION	RIGHT	RTE 926
0.060	0.060	INTERSECTION	LEFT	RTE 410
0.066	0.152	CURB	LEFT	
0.124	0.124	INTERSECTION	RIGHT	RTE 926
0.244	0.279	CURB	RIGHT	
0.246	0.277	PULLOUT	RIGHT	
0.254	0.254	CULVERT	N/A	
0.284	0.284	CULVERT	N/A	
0.326	0.326	CULVERT	N/A	
0.366	0.420	PULLOUT	LEFT	
0.382	0.403	CURB	RIGHT	
0.423	0.492	CURB	RIGHT	
0.558	0.587	CURB	RIGHT	
0.566	0.670	CURB	LEFT	
0.603	0.603	CULVERT	N/A	
0.705	0.770	CURB	RIGHT	
0.725	0.773	GUARDRAIL	LEFT	
0.771	0.771	CULVERT	N/A	
0.772	0.772	DROP INLET	RIGHT	
0.775	0.868	CURB	RIGHT	
0.786	0.850	CURB	LEFT	
0.786	0.850	PULLOUT	LEFT	
0.872	0.872	CULVERT	N/A	
0.881	0.965	CURB	RIGHT	
0.921	0.921	CULVERT	N/A	

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0013 : KOLOB CANYON ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.931	0.951	CURB	LEFT	
0.969	0.969	CULVERT	N/A	
0.973	1.012	CURB	LEFT	
0.980	1.043	CURB	RIGHT	
1.054	1.080	CURB	RIGHT	
1.104	1.104	CULVERT	N/A	
1.112	1.137	CURB	RIGHT	
1.117	1.205	CURB	LEFT	
1.148	1.148	CULVERT	N/A	
1.157	1.200	CURB	RIGHT	
1.201	1.201	CULVERT	N/A	
1.234	1.266	CURB	RIGHT	
1.248	1.248	INTERSECTION	LEFT	
1.271	1.271	CULVERT	N/A	
1.278	1.328	CURB	RIGHT	
1.370	1.397	CURB	RIGHT	
1.408	1.408	CULVERT	N/A	
1.427	1.471	CURB	RIGHT	
1.434	1.456	GUARDRAIL	LEFT	
1.520	1.520	CULVERT	N/A	
1.608	1.651	CURB	RIGHT	
1.653	1.653	CULVERT	N/A	
1.657	1.657	DROP INLET	RIGHT	
1.659	1.678	CURB	RIGHT	
1.679	1.679	CULVERT	N/A	
1.682	1.682	DROP INLET	RIGHT	
1.684	1.711	CURB	RIGHT	

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0013 : KOLOB CANYON ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
1.768	1.782	CURB	RIGHT	
1.781	1.781	CULVERT	N/A	
1.782	1.782	DROP INLET	RIGHT	
1.786	1.812	CURB	RIGHT	
1.813	1.813	DROP INLET	RIGHT	
1.815	1.815	CULVERT	N/A	
1.818	1.922	CURB	RIGHT	
1.821	1.877	CURB	LEFT	
1.821	1.877	PULLOUT	LEFT	
1.885	1.885	CULVERT	N/A	
1.888	1.888	DROP INLET	RIGHT	
1.896	1.970	PULLOUT	LEFT	
1.900	1.971	CURB	LEFT	
1.956	1.977	CURB	RIGHT	
1.978	1.978	INTERSECTION	LEFT	RTE 927
1.982	2.028	CURB	LEFT	
1.988	1.988	CULVERT	N/A	
1.993	2.037	CURB	RIGHT	
2.030	2.030	INTERSECTION	LEFT	RTE 927
2.044	2.044	CULVERT	N/A	
2.046	2.063	CURB	RIGHT	
2.070	2.087	CURB	RIGHT	
2.098	2.098	CULVERT	N/A	
2.100	2.235	CURB	RIGHT	
2.130	2.130	DROP INLET	RIGHT	
2.135	2.135	CULVERT	N/A	
2.261	2.308	PULLOUT	RIGHT	

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0013 : KOLOB CANYON ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
2.262	2.325	CURB	RIGHT	
2.300	2.300	INTERSECTION	LEFT	
2.345	2.345	CULVERT	N/A	
2.345	2.461	CURB	RIGHT	
2.414	2.534	CURB	LEFT	
2.420	2.420	CULVERT	N/A	
2.422	2.422	DROP INLET	RIGHT	
2.500	2.553	PULLOUT	RIGHT	
2.503	2.503	CULVERT	N/A	
2.509	2.603	CURB	RIGHT	
2.660	2.700	CURB	LEFT	
2.683	2.705	PULLOUT	LEFT	
2.686	2.766	CURB	RIGHT	
2.771	2.771	CULVERT	N/A	
2.794	2.928	CURB	RIGHT	
2.838	2.924	CURB	LEFT	
2.934	2.958	GUARDRAIL	RIGHT	
2.936	2.960	GUARDRAIL	LEFT	
2.956	3.131	CURB	RIGHT	
2.957	3.012	PULLOUT	RIGHT	
2.982	3.010	CURB	LEFT	
3.027	3.027	CULVERT	N/A	
3.038	3.326	CURB	LEFT	
3.043	3.132	PULLOUT	RIGHT	
3.187	3.187	INTERSECTION	RIGHT	RTE 928
3.194	3.241	CURB	RIGHT	
3.243	3.243	INTERSECTION	RIGHT	RTE 928

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0013 : KOLOB CANYON ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
3.253	3.417	CURB	RIGHT	
3.279	3.356	GUARDRAIL	RIGHT	
3.433	3.462	CURB	LEFT	
3.503	3.669	CURB	RIGHT	
3.504	3.504	CULVERT	N/A	
3.541	3.541	CULVERT	N/A	
3.680	3.680	CULVERT	N/A	
3.697	3.740	CURB	RIGHT	
3.715	3.868	CURB	LEFT	
3.805	3.805	CULVERT	N/A	
3.811	3.821	CURB	RIGHT	
3.845	3.845	INTERSECTION	LEFT	RTE 929
3.881	3.881	CULVERT	N/A	
3.905	3.918	CURB	RIGHT	
3.921	3.996	PULLOUT	LEFT	
3.923	3.995	CURB	LEFT	
3.969	4.040	CURB	RIGHT	
4.049	4.049	CULVERT	N/A	
4.072	4.136	CURB	RIGHT	
4.116	4.185	CURB	LEFT	
4.140	4.140	DROP INLET	RIGHT	
4.140	4.152	CURB	RIGHT	
4.155	4.197	CURB	RIGHT	
4.159	4.159	CULVERT	N/A	
4.199	4.199	DROP INLET	RIGHT	
4.205	4.355	CURB	LEFT	
4.206	4.206	CULVERT	N/A	

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0013 : KOLOB CANYON ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
4.210	4.248	PULLOUT	LEFT	
4.265	4.281	GUARD WALL	LEFT	
4.266	4.313	PULLOUT	LEFT	
4.382	4.382	CULVERT	N/A	
4.392	4.442	PULLOUT	LEFT	
4.392	4.446	CURB	LEFT	
4.450	4.450	CULVERT	N/A	
4.471	4.504	CURB	RIGHT	
4.515	4.557	CURB	RIGHT	
4.589	4.589	CULVERT	N/A	
4.595	4.633	CURB	RIGHT	
4.613	4.732	CURB	LEFT	
4.682	4.682	CULVERT	N/A	
4.696	4.720	CURB	RIGHT	
4.726	4.726	CULVERT	N/A	
4.733	4.869	CURB	RIGHT	
4.754	4.815	CURB	LEFT	
4.756	4.822	PULLOUT	LEFT	
4.789	4.789	CULVERT	N/A	
4.793	4.793	DROP INLET	RIGHT	
4.870	4.870	CULVERT	N/A	
4.896	4.934	CURB	RIGHT	
4.903	4.945	PULLOUT	LEFT	
4.906	4.946	CURB	LEFT	
4.951	4.951	CULVERT	N/A	
4.972	4.988	CURB	RIGHT	
4.984	5.138	CURB	LEFT	

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0013 : KOLOB CANYON ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
4.994	4.994	CULVERT	N/A	
4.997	5.076	CURB	RIGHT	
5.000	5.052	PULLOUT	LEFT	
5.083	5.083	CULVERT	N/A	
5.104	5.159	CURB	RIGHT	
5.170	5.170	CULVERT	N/A	
5.197	5.241	CURB	RIGHT	
5.228	5.228	CULVERT	N/A	
5.250	5.250			ROUTE ENDS AT END
5.268	5.268	INTERSECTION	LEFT	END AT RTE 930

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0014 : KOLOB TERRACE ROAD NORTH

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT WESTPARK BOUNDARY
0.002	0.002	PARK BOUNDARY	N/A	
0.266	0.266	INTERSECTION	LEFT	HOP VALLEY TRAILHEAD PARKING
0.619	0.619	INTERSECTION	LEFT	UNPAVED ROUTE
0.790	0.790	CULVERT	N/A	
0.849	0.849	INTERSECTION	RIGHT	UNPAVED ROUTE
1.625	1.625	CULVERT	N/A	
1.682	1.682	INTERSECTION	LEFT	UNPAVED ROUTE, GATED, PRIVATE
1.797	1.797	CULVERT	N/A	
1.979	1.979	INTERSECTION	LEFT	UNPAVED TURNOUT, NO PARKING SIGN
1.988	1.988	INTERSECTION	LEFT	UNPAVED TURNOUT, NO PARKING SIGN
2.001	2.001	CULVERT	N/A	
2.100	2.100	CULVERT	N/A	
2.285	2.285	INTERSECTION	LEFT	
2.391	2.391	CULVERT	N/A	
2.447	2.447	CULVERT	N/A	
2.605	2.605	CULVERT	N/A	
2.766	2.766	CULVERT	N/A	
3.147	3.147	INTERSECTION	RIGHT	WILDCAT CANYON TRAILHEAD PARKING
3.283	3.283	CULVERT	N/A	
3.296	3.296	CULVERT	N/A	
3.309	3.309	INTERSECTION	LEFT	TURNOUT, UNPAVED PICNIC AREA
3.322	3.322	INTERSECTION	LEFT	TURNOUT, UNPAVED PICNIC AREA

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0014 : KOLOB TERRACE ROAD NORTH

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
4.785	4.785	CULVERT	N/A	
4.902	4.902	CULVERT	N/A	
5.419	5.419	CULVERT	N/A	
5.616	5.616	INTERSECTION	LEFT	UNPAVED CORRAL
5.800	5.800			ROUTE ENDS AT NORTH PARK BOUNDARY

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0200 : SOUTH CAMPGROUND OUTER LOOP

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 0010 MP 04 ON RIGHT
0.002	0.002	INTERSECTION	LEFT	RTE 010
0.008	0.008	INTERSECTION	RIGHT	BEGIN @ RTE 010
0.016	0.016	INTERSECTION	LEFT	RTE 906
0.034	0.034	INTERSECTION	LEFT	
0.063	0.068	CURB	LEFT	
0.083	0.083	INTERSECTION	LEFT	RTE 905
0.100	0.100	INTERSECTION	RIGHT	
0.102	0.102	INTERSECTION	LEFT	RTE 200 (END OF LOOP)
0.116	0.116	INTERSECTION	LEFT	RTE 200F
0.116	0.116	INTERSECTION	RIGHT	
0.126	0.126	INTERSECTION	RIGHT	
0.149	0.149	INTERSECTION	LEFT	RTE 200D
0.153	0.153	INTERSECTION	LEFT	RTE 200B
0.220	0.220	INTERSECTION	LEFT	RTE 200A
0.292	0.292	CULVERT	N/A	
0.315	0.315	CULVERT	N/A	
0.321	0.321	INTERSECTION	LEFT	
0.323	0.323	INTERSECTION	LEFT	RTE 200J
0.370	0.370	INTERSECTION	LEFT	RTE 200J
0.379	0.379	INTERSECTION	LEFT	RTE 200C
0.455	0.455	INTERSECTION	LEFT	RTE 200D
0.548	0.548	INTERSECTION	LEFT	RTE 200E
0.564	0.564	INTERSECTION	LEFT	RTE 200G
0.625	0.625	CULVERT	N/A	
0.670	0.670	INTERSECTION	LEFT	RTE 200H
0.682	0.682	INTERSECTION	LEFT	RTE 200I

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0200 : SOUTH CAMPGROUND OUTER LOOP

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.722	0.722	CULVERT	N/A	
0.802	0.802	INTERSECTION	LEFT	RTE 200I
0.811	0.811	CULVERT	N/A	
0.817	0.817	INTERSECTION	LEFT	RTE 200G
0.848	0.848	INTERSECTION	LEFT	RIGHT THROUGH CAMPGROUND
0.855	0.855	INTERSECTION	RIGHT	RTE 200
0.860	0.860			ROUTE ENDS AT END OF LOOP

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0202 : WATCHMAN CAMPGROUND ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT ROUTE 0010 MP 015 ON RIGHT
0.009	0.009	INTERSECTION	LEFT	RTE 010
0.009	0.009	INTERSECTION	RIGHT	BEGIN AT RTE 010
0.017	0.017	INTERSECTION	LEFT	
0.095	0.114	BRIDGE	N/A	
0.096	0.116	GUARDRAIL	LEFT	
0.096	0.117	GUARDRAIL	RIGHT	
0.115	0.158	CURB	RIGHT	
0.123	0.144	CURB	LEFT	
0.124	0.124	DROP INLET	RIGHT	
0.126	0.126	INTERSECTION	LEFT	RTE 901
0.160	0.160	INTERSECTION	LEFT	RTE 207
0.164	0.164	INTERSECTION	RIGHT	RTE 937
0.181	0.181	CULVERT	N/A	
0.200	0.200	INTERSECTION	RIGHT	RTE 902
0.359	0.359	INTERSECTION	LEFT	
0.375	0.375	INTERSECTION	LEFT	RTE 202E
0.377	0.377	CULVERT	N/A	
0.382	0.398	CURB	LEFT	
0.401	0.401	INTERSECTION	LEFT	RTE 903
0.408	0.408	INTERSECTION	RIGHT	RTE 202A
0.514	0.514	INTERSECTION	RIGHT	RTE 202B
0.634	0.634	INTERSECTION	LEFT	RTE 202 (INTERSEC WITH END OF LOOP)
0.673	0.673	CULVERT	N/A	
0.677	0.677	CULVERT	N/A	
0.722	0.722	CULVERT	N/A	

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0202 : WATCHMAN CAMPGROUND ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.825	0.825	CULVERT	N/A	
0.843	0.843	CULVERT	N/A	
0.859	0.859	CULVERT	N/A	
0.862	0.862	INTERSECTION	RIGHT	END @ RTE 202 END OF LOOP
0.864	0.864	INTERSECTION	LEFT	END @ RTE 202 END OF LOOP
0.870	0.870			ROUTE ENDS AT END OF LOOP

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0202A : WATCHMAN CAMPGROUND LOOP A

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT ROUTE 0202
0.001	0.001	INTERSECTION	LEFT	RTE 202
0.011	0.011	CULVERT	N/A	
0.032	0.032	CULVERT	N/A	
0.052	0.052	INTERSECTION	LEFT	
0.059	0.059	CULVERT	N/A	
0.099	0.099	CULVERT	N/A	
0.190	0.190	CULVERT	N/A	
0.250	0.250	CULVERT	N/A	
0.257	0.257	INTERSECTION	LEFT	
0.258	0.258	INTERSECTION	RIGHT	END OF LOOP
0.270	0.270			ROUTE ENDS AT END OF LOOP

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0202B : WATCHMAN CAMPGROUND LOOP B

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT ROUTE 0202
0.001	0.001	INTERSECTION	RIGHT	RTE 202
0.008	0.008	INTERSECTION	LEFT	RTE 202
0.011	0.011	CULVERT	N/A	
0.022	0.022	INTERSECTION	LEFT	RTE 202B (END OF LOOP)
0.034	0.034	CULVERT	N/A	
0.047	0.047	INTERSECTION	RIGHT	RTE 904
0.080	0.080	CULVERT	N/A	
0.106	0.106	CULVERT	N/A	
0.113	0.113	INTERSECTION	RIGHT	RTE 202B (EXTERIOR LOOP)
0.114	0.114	CULVERT	N/A	
0.138	0.138	CULVERT	N/A	
0.170	0.170	CULVERT	N/A	
0.223	0.223	CULVERT	N/A	
0.268	0.268	CULVERT	N/A	
0.292	0.292	CULVERT	N/A	
0.299	0.299	INTERSECTION	LEFT	RTE 202B (EXTERIOR LOOP)
0.316	0.316	CULVERT	N/A	
0.438	0.438	CULVERT	N/A	
0.454	0.454	INTERSECTION	LEFT	END @ RTE 202B (END OF LOOP)
0.455	0.455	INTERSECTION	RIGHT	END @ RTE 202B (END OF LOOP)
0.460	0.460			ROUTE ENDS AT THROUGH B LOOP

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0202C : WATCHMAN CAMPGROUND LOOP C

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 0202E
0.001	0.001	INTERSECTION	LEFT	RTE 202E
0.007	0.007	INTERSECTION	RIGHT	RTE 202E
0.031	0.031	INTERSECTION	LEFT	
0.061	0.061	CULVERT	N/A	
0.075	0.075	CULVERT	N/A	
0.083	0.083	CULVERT	N/A	
0.093	0.093	CULVERT	N/A	
0.102	0.102	CULVERT	N/A	
0.129	0.129	CULVERT	N/A	
0.189	0.189	CULVERT	N/A	
0.200	0.200	CULVERT	N/A	
0.273	0.273	CULVERT	N/A	
0.283	0.283	INTERSECTION	RIGHT	
0.284	0.284	INTERSECTION	LEFT	END OF LOOP
0.290	0.290			ROUTE ENDS AT END OF LOOP

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0202D : WATCHMAN CAMPGROUND LOOP D

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 0202E
0.001	0.001	INTERSECTION	LEFT	RTE 202E
0.005	0.005	CULVERT	N/A	
0.017	0.017	INTERSECTION	RIGHT	
0.051	0.051	CULVERT	N/A	
0.059	0.059	CULVERT	N/A	
0.084	0.084	CULVERT	N/A	
0.092	0.092	CULVERT	N/A	
0.105	0.105	CULVERT	N/A	
0.159	0.159	CULVERT	N/A	
0.171	0.171	CULVERT	N/A	
0.183	0.183	CULVERT	N/A	
0.193	0.193	CULVERT	N/A	
0.205	0.205	CULVERT	N/A	
0.217	0.217	CULVERT	N/A	
0.270	0.270			ROUTE ENDS AT END OF LOOP
0.272	0.272	INTERSECTION	LEFT	END OF LOOP

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0202E : WATCHMAN CAMPGROUND LOOPS C & D MAINTENANCE

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT ROUTE 0202 ON LEFT
0.003	0.003	INTERSECTION	RIGHT	RTE 202
0.008	0.008	CULVERT	N/A	
0.021	0.021	INTERSECTION	RIGHT	RTE 202C (LOOP C)
0.045	0.045	INTERSECTION	LEFT	RTE 935
0.062	0.062	INTERSECTION	RIGHT	RTE 202D (LOOP D)
0.079	0.079	INTERSECTION	LEFT	RTE 935
0.126	0.126	INTERSECTION	RIGHT	MAINTENANCE AREA
0.130	0.130			ROUTE ENDS AT MAINTENANCE AREA

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0207 : WATCHMAN TRAIL ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT ROUTE 0202
0.001	0.001	INTERSECTION	RIGHT	RTE 202
0.002	0.002	INTERSECTION	LEFT	RTE 202
0.027	0.027	CULVERT	N/A	
0.029	0.029	INTERSECTION	RIGHT	RTE 934
0.267	0.267	CULVERT	N/A	
0.335	0.335	CULVERT	N/A	
0.365	0.365	INTERSECTION	LEFT	END AT RTE 401
0.367	0.367	INTERSECTION	RIGHT	END AT RTE 401
0.370	0.370			ROUTE ENDS AT ROUTE 0401 AND ROUTE 0400 INTERSECTION

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0208 : EAST RIM TRAIL ACCESS

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT ROUTE 0010 MP 114 ON LEFT
0.001	0.001	INTERSECTION	LEFT	RTE 010
0.008	0.008	INTERSECTION	RIGHT	010
0.034	0.034	INTERSECTION	RIGHT	
0.055	0.055	INTERSECTION	RIGHT	
0.085	0.085	INTERSECTION	LEFT	
0.090	0.090			ROUTE ENDS AT END OF PAVEMENT

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0400 : WATCHMAN CUTOFF ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 0401
0.001	0.001	INTERSECTION	LEFT	RTE 401
0.002	0.002	INTERSECTION	RIGHT	RTE 401
0.177	0.177	INTERSECTION	LEFT	END @ RTE 401
0.180	0.180			ROUTE ENDS AT ROUTE 0401 AND ROUTE 0207 INTERSECTION
0.183	0.183	INTERSECTION	RIGHT	END @ RTE 401

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0401 : WATCHMAN RESIDENCE ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 0403
0.001	0.001	INTERSECTION	LEFT	RTE 403
0.008	0.008	INTERSECTION	RIGHT	RTE 403
0.065	0.082	RETAINING WALL	RIGHT	
0.240	0.258	BRIDGE	N/A	
0.242	0.260	GUARDRAIL	RIGHT	
0.244	0.261	GUARDRAIL	LEFT	
0.273	0.273	INTERSECTION	LEFT	RTE 910
0.288	0.288	INTERSECTION	LEFT	RTE 910
0.323	0.323	INTERSECTION	LEFT	RTE 400
0.477	0.477	INTERSECTION	LEFT	RTE 400
0.480	0.480			ROUTE ENDS AT ROUTE 0207 AND ROUTE 0400 INTERSECTION

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0402 : OAK CREEK ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT ROUTE 0010 MP 068 ON LEFT
0.006	0.006	INTERSECTION	LEFT	RTE 010
0.006	0.006	INTERSECTION	RIGHT	RTE 010
0.044	0.044	INTERSECTION	RIGHT	RTE 403
0.295	0.295	INTERSECTION	RIGHT	RTE 407
0.453	0.453	CULVERT	N/A	
0.496	0.496	CULVERT	N/A	
0.501	0.541	PULLOUT	RIGHT	
0.508	0.537	PULLOUT	LEFT	
0.543	0.543	INTERSECTION	RIGHT	
0.551	0.551	CULVERT	N/A	
0.570	0.570			ROUTE ENDS AT GATE AT ROUTE 0909

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0403 : OAK CREEK HEADQUARTERS ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT ROUTE 0402
0.001	0.001	INTERSECTION	LEFT	RTE 402
0.003	0.003	INTERSECTION	RIGHT	RTE 402
0.050	0.050	INTERSECTION	RIGHT	RTE 401
0.066	0.075	BRIDGE	N/A	
0.066	0.079	GUARDRAIL	RIGHT	
0.066	0.080	GUARDRAIL	LEFT	
0.080	0.080			ROUTE ENDS AT ROUTE 0908
0.080	0.080	INTERSECTION	LEFT	END @ RTE 908
0.090	0.090	INTERSECTION	RIGHT	END @ RTE 908

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0404 : VISITOR CENTER RESIDENTIAL ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT ROUTE 0010 MP 13 ON LEFT
0.001	0.001	INTERSECTION	RIGHT	RTE 010
0.006	0.006	INTERSECTION	LEFT	RTE 010
0.021	0.029	CURB	LEFT	
0.023	0.023	INTERSECTION	LEFT	
0.066	0.066	INTERSECTION	RIGHT	
0.069	0.069	INTERSECTION	LEFT	
0.070	0.070			ROUTE ENDS AT END

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0407 : OAK CREEK RESIDENCE ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 0402 VEER LEFT @ INTERSECTION WITH ROUTE 408
0.011	0.011	INTERSECTION	LEFT	BEGIN @ RTE 402
0.011	0.011	INTERSECTION	RIGHT	BEGIN @ RTE 402
0.040	0.040	CULVERT	N/A	
0.078	0.078	INTERSECTION	RIGHT	RTE 408
0.211	0.215	RETAINING WALL	RIGHT	
0.230	0.230			ROUTE ENDS AT END

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0408 : OAK CREEK RESIDENCE SPUR ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT ROUTE 0407
0.007	0.007	INTERSECTION	RIGHT	BEGIN @ RTE 407
0.014	0.014	INTERSECTION	LEFT	
0.015	0.064	CURB	LEFT	
0.022	0.030	PULLOUT	RIGHT	
0.039	0.053	PULLOUT	RIGHT	
0.041	0.041	DROP INLET	LEFT	
0.066	0.066	INTERSECTION	LEFT	
0.066	0.108	CURB	LEFT	
0.094	0.117	CURB	RIGHT	
0.109	0.109	INTERSECTION	LEFT	
0.129	0.129	INTERSECTION	LEFT	
0.146	0.171	CURB	LEFT	
0.174	0.174	INTERSECTION	RIGHT	
0.175	0.175	INTERSECTION	LEFT	
0.180	0.180			ROUTE ENDS AT END

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0409 : HORSE CORRAL ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 0011 MP 16 ON LEFT
0.066	0.066	INTERSECTION	RIGHT	RTE 011
0.070	0.070	INTERSECTION	LEFT	
0.144	0.144	INTERSECTION	RIGHT	
0.150	0.150			ROUTE ENDS AT HORSE CORRAL

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0410 : KOLOB SERVICE ROAD

<i>FROM MILEPOST</i>	<i>TO MILEPOST</i>	<i>FEATURE</i>	<i>SIDE</i>	<i>COMMENT</i>
0.000	0.000			ROUTE BEGINS AT ROUTE 0013
0.004	0.004	INTERSECTION	RIGHT	RTE 011
0.007	0.007	INTERSECTION	LEFT	RTE 011
0.088	0.112	PULLOUT	RIGHT	
0.111	0.111	CULVERT	N/A	
0.163	0.197	PULLOUT	RIGHT	
0.198	0.198	CULVERT	N/A	
0.220	0.246	PULLOUT	RIGHT	
0.321	0.338	PULLOUT	RIGHT	
0.362	0.362	INTERSECTION	RIGHT	MAINTENANCE AREA
0.381	0.381	INTERSECTION	RIGHT	
0.420	0.420	INTERSECTION	RIGHT	RTE 411
0.433	0.433	INTERSECTION	RIGHT	
0.440	0.440			ROUTE ENDS AT END PAVEMENT

ZION: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0412 : CONCESSIONAIRE / DORM ACCESS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 0011 MP 245 ON RIGHT
0.001	0.001	INTERSECTION	LEFT	RTE 011
0.003	0.003	INTERSECTION	RIGHT	RTE 011
0.064	0.064	INTERSECTION	LEFT	
0.067	0.067	INTERSECTION	RIGHT	
0.084	0.084	INTERSECTION	RIGHT	RTE 931 A
0.138	0.138	INTERSECTION	RIGHT	RTE 931 B
0.183	0.183	INTERSECTION	RIGHT	RTE 931 C
0.276	0.276	INTERSECTION	RIGHT	RTE 413 (END OF LOOP)
0.334	0.334	INTERSECTION	LEFT	END AT END OF LOOP
0.335	0.335	INTERSECTION	RIGHT	END AT END OF LOOP
0.340	0.340			ROUTE ENDS AT END OF LOOP

APPENDIX A: GLOSSARY OF TERMS AND ABBREVIATIONS

TERM OR ABBREVIATION	DESCRIPTION OR DEFINITION
1590	Numeric Code for Zion National Park
AADT	Annually Adjusted Daily Traffic. Average daily traffic adjusted for the term period comprising 80% of annual visitation
CRS	Condition Rating Sheets. (Section 5)
Drainage Condition Rating	A visual rating (Good, Poor) of the drainage condition. (see Section 10)
Excellent	Excellent rating with an index value of 95 or greater
Fair	Fair rating with an index value between 61 and 84
Func. Class	Functional Classification (see Route ID, Section 4)
Good	Good rating with an index value between 85 and 94
IRI	International Roughness Index
Lane Width	Distance from road centerline to fogline, or from centerline to edge-of-pavement when no fogline exists
MRR	Manually Rated Route
NA	Not Applicable
NC	Not Collected
Paved Width	Distance from edge-of-pavement to edge-of-pavement
PCR	Pavement Condition Rating (see Section 10)
Poor	Poor Rating with an index value of 60 or less

RCI	Roughness Condition Index
SADT	Seasonal Annual Daily Traffic. Average daily traffic for the total defined "season"
SCR	Surface Condition Rating (see Section 10)
Shoulder Condition Rating	Visual rating (Good, Poor) of the condition of shoulder. (see Section 10)
Shoulder Width	Distance from fogline to hinge point, or if no fogline, from edge-of-pavement to hinge point
ZION	Alpha Code for Zion National Park

APPENDIX B: DESCRIPTION OF RATING SYSTEM

A numerical roadway rating system is used to describe the overall condition of the paved roadways and paved parking areas. In this system, a numerical rating between 1 and 100 is ascribed to each 0.02 miles of road. This numerical rating is called a Pavement Condition Rating (PCR). A “perfect” road, newly constructed with no surface distresses and a smooth surface, would be assigned a PCR rating of 100. Based on the type, severity, and extent of surface distresses points are deducted from 100 to arrive at the final PCR.

Data is collected on the following distresses and conditions:

- **Alligator Cracking** - a series of interconnecting cracks resembling alligator skin or chicken wire, which can occur anywhere in the lane.
- **Longitudinal Cracking** - cracks which are parallel to the pavement centerline or asphalt lay-down direction.
- **Transverse Cracking** - cracks perpendicular to the pavement centerline.
- **Pothole (patch)** - a bowl-shaped hole in the pavement surface. May be patched or not.
- **Rutting** - surface depressions in the wheel paths.

Roughness is collected as International Roughness Index (IRI) and is used in the PCR formula. Roughness is measured in inches of vertical displacement of the vehicle per mile traveled.

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

Rating Index Formulas

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

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

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

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

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

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

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

Surface Condition Rating (SCR) = $100 - [(100 - AC_INDEX) + (100 - LC_INDEX) + (100 - TC_INDEX) + (100 - PATCH_INDEX) + (100 - RUT_INDEX)]$

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

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

Parking Lot and Manually Rated Road Condition Rating

Surface Condition Distresses- Chip Seal:

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

Ratings - Chip Seal:

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

Surface Condition - Asphalt:

- Cracking of any type
- Rutting
- Potholes/Patching

Ratings - Asphalt:

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

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

Excellent	97
Good	90
Fair	73
Poor	45

Drainage Condition Rating Definitions

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

Drainage Condition Rating Criteria

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

Good Drainage

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

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

Poor Drainage

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

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

Shoulder Condition Rating Definitions

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

Shoulder Rating Criteria

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

Good Shoulders

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

Poor Shoulder

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

APPENDIX C: DIGITAL IMAGE INFORMATION

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

Only Cycle 3 data can be queried and reviewed using the Visi-Data software program. This program is a multimedia data presentation and analysis tool that can be accessed either at the individual park, park region or at NPS headquarters. The data is organized in a hierarchical manner and presented in tabular and graphical formats. The user is able to perform queries and drill down through the data to find the particular information they are trying to query. Associated digital right-of-way images from either the LAN, USB port, individual DVD, or from the Visi-web application, can be presented along with the GPS locations.

APPENDIX D: METADATA

ARAN ROUTE GPS DATA

Background information of route spatial data.

GPS Records: GPS data for NPS routes is stored in the MS Access database for the park. The coordinates of the road traces are stored in the 'PMS_20' table in the 'GPS_LAT' and 'GPS_LON' fields.

Data Collection Device:

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

Accuracy: Expected ground accuracy is 1 meter *

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

Geographic Datum: WGS 1984

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

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

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

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

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

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

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

Specific Caveats

- Three canned reports are titled “Features in Good Condition”, “Features in Fair Condition,” and “Features in Poor Condition.” These titles could be misleading. In Cycle 3, condition assessments have been conducted on **signs only**. Condition assessments have not been conducted on non-sign features, such as culverts, guardrails, pullouts, etc. Although the database and canned reports might report a default value of “good” for un-assessed features, these condition values are not valid for import into FMSS.
- Database records that show a concrete surface type sometimes include index values that seem to show a perfect roadway (e.g., a Pavement Condition Rating (PCR) of 100). The Road Inventory Program does not actually conduct condition assessments of concrete surfaces. The perfect values are just default values assigned to unassessed sections of pavement and do not represent an assessment of the roadway surface's quality.
- On the USB drive, in the Database folder, parks are provided with intersection lists and exceptions lists. These documents should be treated as raw files and are **not accurate**. Refer to the final database for accurately post-processed intersection data.
- Most roadway data is collected in the primary direction lane of a roadway. To save data storage

space and to reduce data analysis efforts, the assumption was made that the paved surface condition of a route's primary lane adequately represents the surface condition of the full roadway. Therefore, in the database, opposite-direction records in the PMS_Visidata table do not include assessed values for roadway surface distresses. Values such as 0, N/A, -1, or a repeat of the primary-direction assessed value indicate that no assessment was performed. The PMS_20 and PMS_Mile tables simply exclude all opposite routes.

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

Key to Notes in Tables

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

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

(3): Mileage is measured by the ARAN (Automatic Road ANalyzer) data collection vehicle out to the 0.001 decimal place. The DMI (distance measuring instrument) is very accurate, with extremely slight variations in measurement due to air temperature, tire inflation, curves, hills, and equipment calibration.

(4): Features are measured differently depending on whether they are visible in the forward-facing video of the roadway, but every feature milepost measurement depends on the baseline measurement of the data collection vehicle's mileage. The ARAN (Automatic Road ANalyzer) data collection vehicle's mileage is measured by the DMI (distance measuring instrument) out to the 0.001 decimal place. The DMI is very accurate, with extremely slight variations in measurement due to air temperature, tire inflation, curves, hills, and equipment calibration. If a feature will not be visible in the forward-facing video, its milepost is determined by the data collectors' key press tagging the milepost when the ARAN passes the feature. Key presses are entered into the ARAN software when the vehicle travels typically between 15 and 45 miles/hour, so a delay of a single second as the vehicle passes a feature would result in an inaccuracy of 0.004 miles (22 feet) to 0.012 miles (66 feet). If a feature is visible in the video, its milepost is determined during post-processing using a video measurement software called Surveyor. Features along the side of a roadway that are measured using the Surveyor software might not be located very accurately. Surveyor is known to be most accurate when measuring quantities near the center of the video frame, as opposed to in the edges of the video image.

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

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

(7): Roadway cracking presence, type, severity, and extent are determined by filming the roadway in the primary lane continuously with two overlapping analog cameras of 640 x 480 resolution. The images from both cameras are stitched together in real time to create a continuous strip image of the roadway pavement in the primary lane. Cracks 3 mm or greater in width are visible in this video. A semi-automatic process running the WiseCrax software with additional input by human operators provides the cracking quantities recorded in these database fields. Quality checks have determined that a consistent 80% or better of the visible cracks are recorded.

Access Database Metadata

Master Table Metadata:

FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
RIP_CYCLE	X	3, for data collection cycle 3	Route ID Meeting	FHWA Determination	100%
STATE	XX	State where route is located	Route ID Meeting	Park Input/FHWA Determination	Untested. (1)
PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	Untested
PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	Untested
RTE_NO	XXXXXX	Route number	Route ID Meeting	Park Input/FHWA Classification	Untested
RTE_NAME	(Text)	Route name	Route ID Meeting	Park Input	Untested. 50 characters fit in field
FUNCT_CLAS	X	Route functional classification	Route ID Meeting	Park Input/FHWA Classification	Untested
DIRECTION	XXX	Survey lane: PRI (primary) or OPP (opposite)	Route ID Meeting	Park Input/FHWA Determination	Untested
BEG_MP_EST	999.999 (miles)	Estimated starting MP	Route ID Meeting	Park Input/FHWA Determination	Estimated before data collected
END_MP_EST	999.999 (miles)	Estimated ending MP	Route ID Meeting	Park Input/FHWA Determination	Estimated before data collected
RTE_LENGTH	999.999 (miles)	Collected route length	ARAN Data Collection	Automatic Output	100%
FROM_DESC	(Text)	Beginning terminus of route	Route ID Meeting	Park Input/FHWA Determination	Estimated before data collected. (2)
TO_DESC	(Text)	Ending terminus of route	Route ID Meeting	Park Input/FHWA Determination	Estimated before data collected. (2)
NO_LANES	X	Number of lanes in route	ARAN Data Collection	Survey Crew Input	Untested. (1)
SURF_TYPE	XX	Surface type of route	ARAN Data Collection	Survey Crew Input	Untested. (1)
COMP_DIR	XX	Compass direction of route's primary lane (nearest cardinal direction)	Route ID Meeting	Park Input/FHWA Determination	Untested
COMMENTS	(Text)	Special information, if any	Contractor Post-processing	Contractor Input	Untested
FILENAME	XXXXXXXXXX	Filename of raw data files	ARAN Data Collection	Automatic Output	100%
SECTION	XXXXXX	Route section ID	Route ID Meeting/ARAN Data Collection	Survey Crew Input/Automatic Output	100%
FKEY	9999999	Unique record ID	Contractor Post-processing	Database Processing	100%
DATE	DD/MM/YY	Data collection date	ARAN Data Collection	Automatic Output	100%
BEG_MP	999.999 (miles)	Beginning MP collected	ARAN Data Collection	Automatic Output	100% (3)
END_MP	999.999 (miles)	Ending MP collected	ARAN Data Collection	Automatic Output	100% (3)

PMS_Feature Table Metadata:

FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
RIP_CYCLE	X	3, for data collection cycle 3	Route ID Meeting	FHWA Determination	100%
STATE	XX	State where route is located	Route ID Meeting	Park Input/FHWA Determination	Untested. (1)
PARK_ALPHA	XXXX	Park alpha code	Route ID Meeting	NPS References	Untested
PARK_NO	XXXX	Park numeric code	Route ID Meeting	NPS References	Untested
RTE_NO	XXXXXXXX	Route number	Route ID Meeting	Park Input/FHWA Classification	Untested
FUNCT_CLAS	X	Route functional class	Route ID Meeting	Park Input/FHWA Classification	Untested
DIRECTION	XXX	Survey lane: PRI (primary) or OPP (opposite)	Route ID Meeting	Park Input/FHWA Determination	Untested
MP	999.999 (miles)	Feature location along route	ARAN Data Collection/Contractor Post-processing	Survey Crew Input/Video Processing	Untested (4)
EVENT	XXXX	Event category of feature	Contractor Post-processing	Video Processing	Untested
EVENT_CODE	XXXX	Event sub-category of feature	Contractor Post-processing	Video Processing	Untested
EVENT_DESC	(Text)	Description of feature/contents of sign	Contractor Post-processing	Video Processing	Untested
MUTCD	"N/A"	N/A. Intended to be sign MUTCD code	Contractor Post-processing	Database Processing	Values inaccurate, defaulted to N/A
CONDITION	XXX	Sign condition (G-D, F-R, P-R, N/A)	Contractor Post-processing	Video Processing	Untested (5)
COMMENT	(Text)	Sign label, intersecting route, etc.	Contractor Post-processing	Database Processing	Untested
OFFSET	"N/A"	N/A. Intended to be offset from pavement edge	Contractor Post-processing	Database Processing	Values inaccurate, defaulted to N/A
SIDE	XXX	Side of route; "N/A" if not on one side	Contractor Post-processing	Video Processing	Untested
STR_NUMBER	XXXXXXXXXXXX	FHWA bridge structure number	FHWA Post-processing	Database Processing	Untested
GPS_LAT	"N/A"	N/A. Intended to be latitude coordinate	Contractor Post-processing	Database Processing	Values inaccurate, defaulted to N/A
GPS_LON	"N/A"	N/A. Intended to be longitude coordinate	Contractor Post-processing	Database Processing	Values inaccurate, defaulted to N/A
GPS_ELEV	"N/A"	N/A. Intended to be elevation	Contractor Post-processing	Database Processing	Values inaccurate, defaulted to N/A
GPS_MODE	"N/A"	N/A. Intended to be GPS mode	Contractor Post-processing	Database Processing	Values inaccurate, defaulted to N/A
VIDEO	<Park-C03VID-#>	Removable USB video hard drive number	Contractor Post-processing	Database Processing	Untested
IMAGE	(Text)	Filename of .jpg image showing feature	Contractor Post-processing	Automatic Output	Untested
DATE	DD/MM/YY	Data collection date	ARAN Data Collection	Automatic Output	100%
FILENAME	XXXXXXXXXX	Filename of raw data files	ARAN Data Collection	Automatic Output	100%
SECTION	XXXXXX	Route section ID	Route ID Meeting/ARAN Data Collection	Survey Crew Input/Automatic Output	100%
FKEY	9999999	Unique record ID	Contractor Post-processing	Database Processing	100%
VISL_FROM	999999 (millimiles)	Raw MP of first video frame showing feature	Contractor Post-processing	Database Processing	Untested
VISL_TO	999999 (millimiles)	Raw MP of last video frame showing feature	Contractor Post-processing	Database Processing	Untested

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

PMS 20, PMS Mile & PMS Visidata Tables Metadata:

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

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

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

Cycle Shapefile Metadata

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

All shapefiles have the following spatial characteristics:

Geographic_Coordinate_Units: Decimal degrees
Spheroid: WGS 1984

zion_mi

Metadata also available as

Metadata:

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

Identification_Information:

Citation:

Citation_Information:

Originator: The TSR Group

Publication_Date: 2005

Title: zion_mi

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage: Not Available

Description:

Abstract: Routes

Purpose: Road Inventory Program

Supplemental_Information:

Data created by The TSR Group from GPS coordinates provided in the PMS_20 table. The shapefile is processed to aggregate adjacent segments with the same PCR rating provided in the PMS_mile table.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 2005

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As per RIP cycle

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -113.229431

East_Bounding_Coordinate: -112.864052

North_Bounding_Coordinate: 37.466282

South_Bounding_Coordinate: 37.193981

Keywords:

Theme:

Theme_Keyword_Thesaurus: ZION

Theme_Keyword: ZION

Access_Constraints: None

Use_Constraints: Redistribution needs permission from EFLHD/NPS

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Dan VanGilder

Contact_Organization: EFLHD

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address: 21400 Ridgetop Circle

City: Sterling

State_or_Province: Virginia

Postal_Code: 20166

Country: United States

Contact_Voice_Telephone: 703-404-6361

Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov

Native_Data_Set_Environment:

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

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report: Good

Completeness_Report: Complete for routes

Lineage:

Source_Information:

Type_of_Source_Media: GPS

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: String

Point_and_Vector_Object_Count: 45

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution: 0.000000

Longitude_Resolution: 0.000000

Geographic_Coordinate_Units: Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1927

Ellipsoid_Name: Clarke 1866

Semi-major_Axis: 6378206.400000
Denominator_of_Flattening_Ratio: 294.978698

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: zion_mi

Attribute:

Attribute_Label: FID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain:

Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: Shape

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: LENGTH

Attribute_Definition: Length of feature

Attribute_Definition_Source: ESRI

Attribute:

Attribute_Label: ID

Attribute:

Attribute_Label: RTE_NO

Attribute_Definition: Route number

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: RT_LENGTH

Attribute_Definition: Collected route length

Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: PCRMI

Attribute_Definition: Numeric PCR definition

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum: 0

Range_Domain_Maximum: 100

Attribute:

Attribute_Label: PCR_RATEMI

Attribute_Definition: Verbal PCR definition

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: POOR

Enumerated_Domain_Value_Definition: PCR value <= 60

Enumerated_Domain:

Enumerated_Domain_Value: FAIR

Enumerated_Domain_Value_Definition: PCR value 61-84

Enumerated_Domain:

Enumerated_Domain_Value: GOOD

Enumerated_Domain_Value_Definition: PCR value 85-94

Enumerated_Domain:

Enumerated_Domain_Value: EXCELLENT

Enumerated_Domain_Value_Definition: PCR value 95-100

Attribute:

Attribute_Label: TSR_EDIT

Attribute_Definition: Indicates whether feature has been edited for graphic purposes.

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 1

Enumerated_Domain_Value_Definition: Edit has been made to feature for graphic purposes

Enumerated_Domain:

Enumerated_Domain_Value: 0

Enumerated_Domain_Value_Definition: No edit made to feature.

Distribution_Information:

Resource_Description: Downloadable Data

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Transfer_Size: 0.016

Metadata_Reference_Information:

Metadata_Date: 20060124

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: EFLHD Sterling

Contact_Person: Dan VanGilder

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical address

City: Sterling

State_or_Province: Virginia

Postal_Code: 20166

Country: United States

Contact_Voice_Telephone: 703-404-6361

Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Time_Convention: local time

Metadata_Extensions:

Online_Linkage: <<http://www.esri.com/metadata/esriprof80.html>>
Profile_Name: ESRI Metadata Profile

Generated by [mp](#) version 2.7.33 on Tue Jan 24 10:02:35 2006

zion_mi_pt

Metadata also available as

Metadata:

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

Identification_Information:

Citation:

Citation_Information:

Originator: The TSR Group

Publication_Date: 2005

Title: zion_mi_pt

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage: Not Available

Description:

Abstract: Mile Points

Purpose: Road Inventory Program

Supplemental_Information:

Data created by The TSR Group from GPS coordinates provided in the PMS_20 table. All attributes found in the PMS_20 table are found on the miles points.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 2005

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: Not Available

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -113.229431

East_Bounding_Coordinate: -112.865058

North_Bounding_Coordinate: 37.465721

South_Bounding_Coordinate: 37.196449

Keywords:

Theme:

Theme_Keyword_Thesaurus: ZION

Theme_Keyword: ZION

Access_Constraints: None

Use_Constraints: Redistribution needs permission from EFLHD/NPS

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Dan VanGilder

Contact_Organization: EFLHD Sterling

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address: 21400 Ridgetop Circle

City: Sterling

State_or_Province: Virginia

Postal_Code: 20166

Country: United States

Contact_Voice_Telephone: 703-404-6361

Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov

Native_Data_Set_Environment:

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

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report: Good

Completeness_Report: Complete for mile points

Lineage:

Source_Information:

Type_of_Source_Media: GPS

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Entity point

Point_and_Vector_Object_Count: 56

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution: 0.000000

Longitude_Resolution: 0.000000

Geographic_Coordinate_Units: Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1927

Ellipsoid_Name: Clarke 1866

Semi-major_Axis: 6378206.400000

Denominator_of_Flattening_Ratio: 294.978698

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: zion_mi_pt

Attribute:

Attribute_Label: FID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain:

Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: Shape

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: RIP_CYCLE

Attribute_Definition: 3, for data collection cycle 3

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: STATE

Attribute_Definition: State where route is located

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: PARK_ALPHA

Attribute_Definition: Park alpha code

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: PARK_NO

Attribute_Definition: Park numeric code

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: RTE_NO

Attribute_Definition: Route number

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: FUNCT_CLAS

Attribute_Definition: Route functional class

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: DIRECTION

Attribute_Definition: Survey lane: PRI (primary) or OPP (opposite)

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: BEG_MP

Attribute_Definition: MP at end of road interval described by database record

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: END_MP

Attribute_Definition: MP at end of road interval described by database record

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: INT_LENGTH

Attribute_Definition: Length of road interval as aggregated from data table

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: RTE_LENGTH

Attribute_Definition: Collected route length

Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: NO_LANES

Attribute_Definition: Number of lanes in route

Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: LANE_NO

Attribute_Definition: Data collection lane

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: WX_LANE_WI

Attribute_Definition: WiseCrax (crack detection software) analysis width

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: LANE_WIDTH

Attribute_Definition: Width of lane

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: PAVE_WIDTH

Attribute_Definition: Full pavement width

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: SHLD_WIDTH

Attribute_Definition: Left shoulder width

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: SHLD_WID_1

Attribute_Definition: Right shoulder width

Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: SHLD_COND_

Attribute_Definition: Left shoulder condition

Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: SHLD_COND1

Attribute_Definition: Right shoulder condition

Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: DRAIN_COND
Attribute_Definition: Left drainage condition
Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: DRAIN_CO_1
Attribute_Definition: Right drainage condition
Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: SURF_TYPE
Attribute_Definition: Surface type of route
Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: PCR
Attribute_Definition: Pavement Condition Rating
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: RCI
Attribute_Definition: Roughness Condition Index; -1 if invalid IRI
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: SCR
Attribute_Definition: Surface Condition Rating
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: IRI_AVG
Attribute_Definition: Average IRI
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: IRI_SD
Attribute_Definition: IRI Standard Deviation
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: IRI_L
Attribute_Definition: Left wheel path IRI
Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: IRI_R
Attribute_Definition: Right wheel path IRI
Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: IRI_FLAG
Attribute_Definition: -1 if invalid IRI data
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: RUT_INDEX
Attribute_Definition: Rut index
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: RUT_AVG
Attribute_Definition: Average rut depth of both wheelpaths
Attribute_Definition_Source: Contractor Post-processing

*Attribute:**Attribute_Label:* RUT_MAX*Attribute_Definition:* Maximum rut depth of both wheelpaths*Attribute_Definition_Source:* Contractor Post-processing*Attribute:**Attribute_Label:* RUT_SD*Attribute_Definition:* Rut depth standard deviation*Attribute_Definition_Source:* Contractor Post-processing*Attribute:**Attribute_Label:* RUT_LOW*Attribute_Definition:*

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

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* RUT_MED*Attribute_Definition:*

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

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* RUT_HI*Attribute_Definition:*

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

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* XFALL*Attribute_Definition:* Cross fall at start of road interval*Attribute_Definition_Source:* ARAN Data Collection*Attribute:**Attribute_Label:* GRADE*Attribute_Definition:* Grade at start of road interval*Attribute_Definition_Source:* ARAN Data Collection*Attribute:**Attribute_Label:* AC_INDEX*Attribute_Definition:* Alligator cracking index*Attribute_Definition_Source:* Contractor Post-processing*Attribute:**Attribute_Label:* AC_LOW*Attribute_Definition:*

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

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* AC_MED*Attribute_Definition:*

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

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* AC_HI*Attribute_Definition:*

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

Attribute_Definition_Source: Contractor Post-processing

*Attribute:**Attribute_Label:* LC_INDEX*Attribute_Definition:* Longitudinal cracking index*Attribute_Definition_Source:* Contractor Post-processing*Attribute:**Attribute_Label:* LC_LOW*Attribute_Definition:*

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

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* LC_MED*Attribute_Definition:*

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

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* LC_HI*Attribute_Definition:*

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

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* TC_INDEX*Attribute_Definition:* Transverse cracking index*Attribute_Definition_Source:* Contractor Post-processing*Attribute:**Attribute_Label:* TC_LOW*Attribute_Definition:*

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

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* TC_MED*Attribute_Definition:*

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

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* TC_HI*Attribute_Definition:*

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

Attribute_Definition_Source: Contractor Post-processing*Attribute:**Attribute_Label:* PATCH_INDE*Attribute_Definition:* Patching index*Attribute_Definition_Source:* Contractor Post-processing*Attribute:**Attribute_Label:* PATCHING*Attribute_Definition:* Percent of WiseCrax measured lane area affected by patching

Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: GPS_LAT
Attribute_Definition: Latitude coordinate
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: GPS_LON
Attribute_Definition: Longitude coordinate
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: GPS_ELEV
Attribute_Definition: Elevation
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: GPS_MODE
Attribute_Definition: GPS mode during collection
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: VIDEO
Attribute_Definition: Removable USB video hard drive number
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: IMAGE
Attribute_Definition: Filename of .jpg image showing road interval
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: SPEED
Attribute_Definition: Average ARAN speed during data collection
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: BRIDGE_FL A
Attribute_Definition: Flag indicating presence of bridge in interval
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: CONSTR_FL A
Attribute_Definition: Flag indicating construction in interval
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: LANEDEV_FL
Attribute_Definition: Flag indicating lane deviation in interval
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: DATE
Attribute_Definition: Data collection date
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: NODISTRESS
Attribute_Definition: Flag indicating absence of pavement distress
Attribute_Definition_Source: Contractor Post-processing
Attribute:
Attribute_Label: FILENAME

Attribute_Definition: Filename of raw data files
Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: SECTION
Attribute_Definition: route section ID
Attribute_Definition_Source: Route ID Meeting / ARAN Data Collection

Attribute:

Attribute_Label: FKEY
Attribute_Definition: Unique record ID
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: VISI_FROM
Attribute_Definition: Raw MP of first video frame in section
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: VISI_TO
Attribute_Definition: Raw MP of last video frame in section
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: IDKEY
Attribute_Definition: Unique record ID used by VisiData
Attribute_Definition_Source: Contractor Post-processing

Attribute:

Attribute_Label: MP_REF
Attribute_Definition: Range of mileage to play in VisiData
Attribute_Definition_Source: Contractor Post-processing

Distribution_Information:

Resource_Description: Downloadable Data

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Transfer_Size: 0.030

Metadata_Reference_Information:

Metadata_Date: 20060124

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: EFLHD Sterling

Contact_Person: Dan VanGilder

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address: 21400 Ridgetop Circle

City: Sterling

State_or_Province: Virginia

Postal_Code: 20166

Country: United States

Contact_Voice_Telephone: 703-404-6361

Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Time_Convention: local time

Metadata_Extensions:

Online_Linkage: <<http://www.esri.com/metadata/esriprof80.html>>

Profile_Name: ESRI Metadata Profile

Generated by [mp](#) version 2.7.33 on Tue Jan 24 10:02:54 2006

zion_mrp_03_map

Metadata also available as

Metadata:

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

Identification_Information:

Citation:

Citation_Information:

Originator: Eastern Federal Lands Highway Division

Publication_Date: Unknown

Title: zion_mrp_03_map

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage: Not Available

Description:

Abstract: Manually Rated Roads - Polygons

Purpose: Road Inventory Program

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 11/2/1999

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As per RIP cycle

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -113.224745

East_Bounding_Coordinate: -112.981833

North_Bounding_Coordinate: 37.460186

South_Bounding_Coordinate: 37.202127

Keywords:

Theme:

Theme_Keyword_Thesaurus: ZION

Theme_Keyword: ZION

Access_Constraints: None

Use_Constraints: None

Point_of_Contact:

Contact_Information:

*Contact_Person_Primary:**Contact_Person:* Dan VanGilder*Contact_Organization:* EFLHD*Contact_Position:* GIS Coordinator*Contact_Address:**Address_Type:* mailing and physical address*Address:* 21400 Ridgetop Circle*City:* Sterling*State_or_Province:* Virginia*Postal_Code:* 20166*Country:* United States*Contact_Voice_Telephone:* 703-404-6361*Contact_Electronic_Mail_Address:* dvangilder@fhwa.dot.gov*Native_Data_Set_Environment:*

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

*Data_Quality_Information:**Attribute_Accuracy:**Attribute_Accuracy_Report:* Good*Completeness_Report:* Complete for manually rated roads.*Lineage:**Source_Information:**Type_of_Source_Media:* GPS

*Spatial_Data_Organization_Information:**Direct_Spatial_Reference_Method:* Vector*Point_and_Vector_Object_Information:**SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:* G-polygon*Point_and_Vector_Object_Count:* 2

*Spatial_Reference_Information:**Horizontal_Coordinate_System_Definition:**Geographic:**Latitude_Resolution:* 0.000000*Longitude_Resolution:* 0.000000*Geographic_Coordinate_Units:* Decimal degrees*Geodetic_Model:**Horizontal_Datum_Name:* North American Datum of 1927*Ellipsoid_Name:* Clarke 1866*Semi-major_Axis:* 6378206.400000*Denominator_of_Flattening_Ratio:* 294.978698

*Entity_and_Attribute_Information:**Detailed_Description:**Entity_Type:**Entity_Type_Label:* zion_mrp_03_map*Attribute:**Attribute_Label:* FID*Attribute_Definition:* Internal feature number.*Attribute_Definition_Source:* ESRI*Attribute_Domain_Values:**Unrepresentable_Domain:*

Sequential unique whole numbers that are automatically generated.

*Attribute:**Attribute_Label:* Shape*Attribute_Definition:* Feature geometry.*Attribute_Definition_Source:* ESRI*Attribute_Domain_Values:**Unrepresentable_Domain:* Coordinates defining the features.*Attribute:**Attribute_Label:* PARK_ALPHA*Attribute_Definition:* Park alpha code*Attribute_Definition_Source:* Route ID Meeting*Attribute:**Attribute_Label:* RTE_NO*Attribute_Definition:* Route Number*Attribute_Definition_Source:* Route ID Meeting*Attribute:**Attribute_Label:* RTE_NAME*Attribute_Definition:* Route Name*Attribute_Definition_Source:* Route ID Meeting*Attribute:**Attribute_Label:* SECTION_*Attribute_Definition:* Route section ID*Attribute:**Attribute_Label:* COMMENT*Attribute_Definition:* Surface type of route*Attribute:**Attribute_Label:* SURF_TYPE*Attribute_Definition:* Condition rating*Attribute:**Attribute_Label:* CONDITION*Attribute_Definition:* Field comment*Attribute:**Attribute_Label:* GPS_DATE*Attribute_Definition:* Date of GPS collection*Attribute:**Attribute_Label:* DATAFILE*Attribute:**Attribute_Label:* SQ_FT*Attribute_Definition:* Area of manually rated road in square feet*Attribute:**Attribute_Label:* PROJECTN

*Distribution_Information:**Resource_Description:* Downloadable Data*Standard_Order_Process:**Digital_Form:**Digital_Transfer_Information:**Transfer_Size:* 0.187

*Metadata_Reference_Information:**Metadata_Date:* 20060124*Metadata_Contact:**Contact_Information:**Contact_Organization_Primary:**Contact_Organization:* EFLHD Sterling*Contact_Person:* Dan VanGilder*Contact_Position:* GIS Coordinator*Contact_Address:**Address_Type:* mailing and physical address*Address:* 21400 Ridgetop Circle*City:* Sterling*State_or_Province:* Virginia*Postal_Code:* 20166*Country:* United States*Contact_Voice_Telephone:* 703-404-6361*Contact_Electronic_Mail_Address:* dvangilder@fhwa.dot.gov*Metadata_Standard_Name:* FGDC Content Standards for Digital Geospatial Metadata*Metadata_Standard_Version:* FGDC-STD-001-1998*Metadata_Time_Convention:* local time*Metadata_Extensions:**Online_Linkage:* <<http://www.esri.com/metadata/esriprof80.html>>*Profile_Name:* ESRI Metadata Profile

Generated by [mp](#) version 2.7.33 on Tue Jan 24 10:01:52 2006

zion_mrp_03

Metadata also available as

Metadata:

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

Identification_Information:

Citation:

Citation_Information:

Originator: Eastern Federal Lands Highway Division

Publication_Date: Unknown

Title: zion_mrp_03

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage: Not Available

Description:

Abstract: Manually Rated Roads - Polygons

Purpose: Road Inventory Program

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 11/2/1999

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As per RIP cycle

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -113.224745

East_Bounding_Coordinate: -112.981833

North_Bounding_Coordinate: 37.460186

South_Bounding_Coordinate: 37.202127

Keywords:

Theme:

Theme_Keyword_Thesaurus: ZION

Theme_Keyword: ZION

Access_Constraints: None

Use_Constraints: None

Point_of_Contact:

Contact_Information:

*Contact_Person_Primary:**Contact_Person:* Dan VanGilder*Contact_Organization:* EFLHD*Contact_Position:* GIS Coordinator*Contact_Address:**Address_Type:* mailing and physical address*Address:* 21400 Ridgetop Circle*City:* Sterling*State_or_Province:* Virginia*Postal_Code:* 20166*Country:* United States*Contact_Voice_Telephone:* 703-404-6361*Contact_Electronic_Mail_Address:* dvangilder@fhwa.dot.gov*Native_Data_Set_Environment:*

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

*Data_Quality_Information:**Attribute_Accuracy:**Attribute_Accuracy_Report:* Good*Completeness_Report:* Complete for manually rated roads.*Lineage:**Source_Information:**Type_of_Source_Media:* GPS*Spatial_Data_Organization_Information:**Direct_Spatial_Reference_Method:* Vector*Point_and_Vector_Object_Information:**SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:* G-polygon*Point_and_Vector_Object_Count:* 2*Spatial_Reference_Information:**Horizontal_Coordinate_System_Definition:**Geographic:**Latitude_Resolution:* 0.000000*Longitude_Resolution:* 0.000000*Geographic_Coordinate_Units:* Decimal degrees*Geodetic_Model:**Horizontal_Datum_Name:* North American Datum of 1927*Ellipsoid_Name:* Clarke 1866*Semi-major_Axis:* 6378206.400000*Denominator_of_Flattening_Ratio:* 294.978698

*Entity_and_Attribute_Information:**Detailed_Description:**Entity_Type:**Entity_Type_Label:* zion_mrp_03*Attribute:**Attribute_Label:* FID*Attribute_Definition:* Internal feature number.*Attribute_Definition_Source:* ESRI*Attribute_Domain_Values:**Unrepresentable_Domain:*

Sequential unique whole numbers that are automatically generated.

*Attribute:**Attribute_Label:* Shape*Attribute_Definition:* Feature geometry.*Attribute_Definition_Source:* ESRI*Attribute_Domain_Values:**Unrepresentable_Domain:* Coordinates defining the features.*Attribute:**Attribute_Label:* PARK_ALPHA*Attribute_Definition:* Park alpha code*Attribute_Definition_Source:* Route ID Meeting*Attribute:**Attribute_Label:* RTE_NO*Attribute_Definition:* Route Number*Attribute_Definition_Source:* Route ID Meeting*Attribute:**Attribute_Label:* RTE_NAME*Attribute_Definition:* Route Name*Attribute_Definition_Source:* Route ID Meeting*Attribute:**Attribute_Label:* SECTION_*Attribute_Definition:* Route section ID*Attribute:**Attribute_Label:* COMMENT*Attribute_Definition:* Surface type of route*Attribute:**Attribute_Label:* SURF_TYPE*Attribute_Definition:* Condition rating*Attribute:**Attribute_Label:* CONDITION*Attribute_Definition:* Field comment*Attribute:**Attribute_Label:* GPS_DATE*Attribute_Definition:* Date of GPS collection*Attribute:**Attribute_Label:* DATAFILE*Attribute:**Attribute_Label:* SQ_FT*Attribute_Definition:* Area of manually rated road in square feet*Attribute:**Attribute_Label:* PROJECTN

*Distribution_Information:**Resource_Description:* Downloadable Data*Standard_Order_Process:**Digital_Form:**Digital_Transfer_Information:**Transfer_Size:* 0.187

*Metadata_Reference_Information:**Metadata_Date:* 20060124*Metadata_Contact:**Contact_Information:**Contact_Organization_Primary:**Contact_Organization:* EFLHD Sterling*Contact_Person:* Dan VanGilder*Contact_Position:* GIS Coordinator*Contact_Address:**Address_Type:* mailing and physical address*Address:* 21400 Ridgetop Circle*City:* Sterling*State_or_Province:* Virginia*Postal_Code:* 20166*Country:* United States*Contact_Voice_Telephone:* 703-404-6361*Contact_Electronic_Mail_Address:* dvangilder@fhwa.dot.gov*Metadata_Standard_Name:* FGDC Content Standards for Digital Geospatial Metadata*Metadata_Standard_Version:* FGDC-STD-001-1998*Metadata_Time_Convention:* local time*Metadata_Extensions:**Online_Linkage:* <<http://www.esri.com/metadata/esriprof80.html>>*Profile_Name:* ESRI Metadata Profile

Generated by [mp](#) version 2.7.33 on Tue Jan 24 10:01:36 2006

zion_nonnps

Metadata also available as

Metadata:

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

Identification_Information:

Citation:

Citation_Information:

Originator: The TSR Group

Publication_Date: 2005

Title: zion_nonnps

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage: Not Available

Description:

Abstract: non-NPS roads

Purpose: Road Inventory Program

Supplemental_Information:

Data created by The TSR Group from heads-up digitizing of roads representing non-NPS roads for graphic purposes

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 2005

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As per RIP cycle

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -113.226072

East_Bounding_Coordinate: -113.225203

North_Bounding_Coordinate: 37.459258

South_Bounding_Coordinate: 37.454348

Keywords:

Theme:

Theme_Keyword_Thesaurus: ZION

Theme_Keyword: ZION

Access_Constraints: None

Use_Constraints: Redistribution needs permission from EFLHD/NPS

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Dan VanGilder

Contact_Organization: EFLHD

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address: 21400 Ridgetop Circle

City: Sterling

State_or_Province: Virginia

Postal_Code: 20166

Country: United States

Contact_Voice_Telephone: 703-404-6361

Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov

Native_Data_Set_Environment:

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

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report: Good

Completeness_Report: Complete for non-NPS roads

Lineage:

Source_Information:

Type_of_Source_Media: Heads-up digitized

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: String

Point_and_Vector_Object_Count: 1

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution: 0.000000

Longitude_Resolution: 0.000000

Geographic_Coordinate_Units: Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1927

Ellipsoid_Name: Clarke 1866

Semi-major_Axis: 6378206.400000

Denominator_of_Flattening_Ratio: 294.978698

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: zion_nonnps

Attribute:

Attribute_Label: FID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain:

Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: Shape

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: Id

Attribute_Definition: Name of road if available

Attribute:

Attribute_Label: Name

Distribution_Information:

Resource_Description: Downloadable Data

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Transfer_Size: 0.008

Metadata_Reference_Information:

Metadata_Date: 20060124

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: EFLHD Sterling

Contact_Person: Dan VanGilder

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address: 21400 Ridgetop Circle

City: Sterling

State_or_Province: Virginia

Postal_Code: 20166

Country: United States

Contact_Voice_Telephone: 703-404-6361

Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Time_Convention: local time

Metadata_Extensions:

Online_Linkage: <<http://www.esri.com/metadata/esriprof80.html>>

Profile_Name: ESRI Metadata Profile

Generated by [mp](#) version 2.7.33 on Tue Jan 24 10:03:17 2006

zion_pkg_03_map

Metadata also available as

Metadata:

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

Identification_Information:

Citation:

Citation_Information:

Originator: Eastern Federal Lands Highway Division

Publication_Date: Unknown

Title: zion_pkg_03_map

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage: Not Available

Description:

Abstract: Copy of Parking Areas

Purpose: Road Inventory Program

Supplemental_Information:

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

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 11/2/1999

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As per RIP cycle

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -113.228331

East_Bounding_Coordinate: -112.878945

North_Bounding_Coordinate: 37.462217

South_Bounding_Coordinate: 37.196472

Keywords:

Theme:

Theme_Keyword_Thesaurus: ZION

Theme_Keyword: ZION

Access_Constraints: None

Use_Constraints: Redistribution needs permission from EFLHD/NPS

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Dan VanGilder

Contact_Organization: EFLHD

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address: 21400 Ridgetop Circle

City: Sterling

State_or_Province: Virginia

Postal_Code: 20166

Country: United States

Contact_Voice_Telephone: 703-404-6361

Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov

Native_Data_Set_Environment:

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

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report: Good

Completeness_Report: Complete for parking areas

Lineage:

Source_Information:

Type_of_Source_Media: GPS

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: G-polygon

Point_and_Vector_Object_Count: 63

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution: 0.000000

Longitude_Resolution: 0.000000

Geographic_Coordinate_Units: Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1927

Ellipsoid_Name: Clarke 1866

Semi-major_Axis: 6378206.400000

Denominator_of_Flattening_Ratio: 294.978698

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: zion_pkg_03_map

Attribute:

Attribute_Label: FID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain:

Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: Shape

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: PARK_ALPHA

Attribute_Definition: Park alpha code

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: RTE_NO

Attribute_Definition: Route number

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: RTE_NAME

Attribute_Definition: Route name

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: FEATURE

Attribute:

Attribute_Label: SURF_TYPE

Attribute_Definition: Surface type of route

Attribute_Domain_Values:

Attribute:

Attribute_Label: CONDITION

Attribute_Definition: Condition rating for route

Attribute:

Attribute_Label: PHOTOS

Attribute_Definition: Photo filename associated with feature

Attribute:

Attribute_Label: COMMENT

Attribute_Definition: Field comment

Attribute:

Attribute_Label: GPS_DATE

Attribute_Definition: Date of GPS collection

*Attribute:**Attribute_Label:* DATAFILE*Attribute:**Attribute_Label:* SQ_FT*Attribute_Definition:* Feature area in square feet

*Distribution_Information:**Resource_Description:* Downloadable Data*Standard_Order_Process:**Digital_Form:**Digital_Transfer_Information:**Transfer_Size:* 0.018

*Metadata_Reference_Information:**Metadata_Date:* 20060124*Metadata_Contact:**Contact_Information:**Contact_Organization_Primary:**Contact_Organization:* EFLHD Sterling*Contact_Person:* Dan VanGilder*Contact_Position:* GIS Coordinator*Contact_Address:**Address_Type:* mailing and physical address*Address:* 21400 Ridgetop Circle*City:* Sterling*State_or_Province:* Virginia*Postal_Code:* 20166*Country:* United States*Contact_Voice_Telephone:* 703-404-6361*Contact_Electronic_Mail_Address:* dvangilder@fhwa.dot.gov*Metadata_Standard_Name:* FGDC Content Standards for Digital Geospatial Metadata*Metadata_Standard_Version:* FGDC-STD-001-1998*Metadata_Time_Convention:* local time*Metadata_Extensions:**Online_Linkage:* <<http://www.esri.com/metadata/esriprof80.html>>*Profile_Name:* ESRI Metadata Profile

Generated by [mp](#) version 2.7.33 on Tue Jan 24 10:02:20 2006

zion_pkg_03

Metadata also available as

Metadata:

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

Identification_Information:

Citation:

Citation_Information:

Originator: Eastern Federal Lands Highway Division

Publication_Date: Unknown

Title: zion_pkg_03

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage: Not Available

Description:

Abstract: Parking Areas

Purpose: Road Inventory Program

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 11/2/1999

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As per RIP cycle

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -113.226698

East_Bounding_Coordinate: -112.878497

North_Bounding_Coordinate: 37.462022

South_Bounding_Coordinate: 37.196472

Keywords:

Theme:

Theme_Keyword_Thesaurus: ZION

Theme_Keyword: ZION

Access_Constraints: None

Use_Constraints: Redistribution needs permission from EFLHD/NPS

Point_of_Contact:

Contact_Information:

*Contact_Person_Primary:**Contact_Person:* Dan VanGilder*Contact_Organization:* EFLHD*Contact_Position:* GIS Coordinator*Contact_Address:**Address_Type:* mailing and physical address*Address:* 21400 Ridgetop Circle*City:* Sterling*State_or_Province:* Virginia*Postal_Code:* 20166*Country:* United States*Contact_Voice_Telephone:* 703-404-6361*Contact_Electronic_Mail_Address:* dvangilder@fhwa.dot.gov*Native_Data_Set_Environment:*

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

*Data_Quality_Information:**Attribute_Accuracy:**Attribute_Accuracy_Report:* Good*Completeness_Report:* Complete for parking areas*Lineage:**Source_Information:**Type_of_Source_Media:* GPS

*Spatial_Data_Organization_Information:**Direct_Spatial_Reference_Method:* Vector*Point_and_Vector_Object_Information:**SDTS_Terms_Description:**SDTS_Point_and_Vector_Object_Type:* G-polygon*Point_and_Vector_Object_Count:* 63

*Spatial_Reference_Information:**Horizontal_Coordinate_System_Definition:**Geographic:**Latitude_Resolution:* 0.000000*Longitude_Resolution:* 0.000000*Geographic_Coordinate_Units:* Decimal degrees*Geodetic_Model:**Horizontal_Datum_Name:* North American Datum of 1927*Ellipsoid_Name:* Clarke 1866*Semi-major_Axis:* 6378206.400000*Denominator_of_Flattening_Ratio:* 294.978698

*Entity_and_Attribute_Information:**Detailed_Description:**Entity_Type:**Entity_Type_Label:* zion_pkg_03*Attribute:**Attribute_Label:* FID*Attribute_Definition:* Internal feature number.*Attribute_Definition_Source:* ESRI*Attribute_Domain_Values:**Unrepresentable_Domain:*

Sequential unique whole numbers that are automatically generated.

*Attribute:**Attribute_Label:* Shape*Attribute_Definition:* Feature geometry.*Attribute_Definition_Source:* ESRI*Attribute_Domain_Values:**Unrepresentable_Domain:* Coordinates defining the features.*Attribute:**Attribute_Label:* PARK_ALPHA*Attribute_Definition:* Park alpha code*Attribute_Definition_Source:* Route ID Meeting*Attribute:**Attribute_Label:* RTE_NO*Attribute_Definition:* Route number*Attribute_Definition_Source:* Route ID Meeting*Attribute:**Attribute_Label:* RTE_NAME*Attribute_Definition:* Route name*Attribute_Definition_Source:* Route ID Meeting*Attribute:**Attribute_Label:* FEATURE*Attribute:**Attribute_Label:* SURF_TYPE*Attribute_Definition:* Surface type of route*Attribute_Domain_Values:**Attribute:**Attribute_Label:* CONDITION*Attribute_Definition:* Condition rating for route*Attribute:**Attribute_Label:* PHOTOS*Attribute_Definition:* Photo filename associated with feature*Attribute:**Attribute_Label:* COMMENT*Attribute_Definition:* Field comment*Attribute:**Attribute_Label:* GPS_DATE*Attribute_Definition:* Date of GPS collection*Attribute:**Attribute_Label:* DATAFILE*Attribute:**Attribute_Label:* SQ_FT

Attribute_Definition: Feature area in square feet

Distribution_Information:

Resource_Description: Downloadable Data

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Transfer_Size: 0.018

Metadata_Reference_Information:

Metadata_Date: 20060124

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: EFLHD Sterling

Contact_Person: Dan VanGilder

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address: 21400 Ridgetop Circle

City: Sterling

State_or_Province: Virginia

Postal_Code: 20166

Country: United States

Contact_Voice_Telephone: 703-404-6361

Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Time_Convention: local time

Metadata_Extensions:

Online_Linkage: <<http://www.esri.com/metadata/esriprof80.html>>

Profile_Name: ESRI Metadata Profile

Generated by [mp](#) version 2.7.33 on Tue Jan 24 10:02:06 2006

zion_seg

Metadata also available as

Metadata:

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

Identification_Information:

Citation:

Citation_Information:

Originator: The TSR Group

Publication_Date: 2005

Title: zion_seg

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage: Not Available

Description:

Abstract: Routes

Purpose: Road Inventory Program

Supplemental_Information:

Data created by The TSR Group from GPS coordinates provided in the PMS_20 table. The shapefile is processed to aggregate adjacent segments with the same PCR rating.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 2005

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As per RIP cycle

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -113.229431

East_Bounding_Coordinate: -112.864052

North_Bounding_Coordinate: 37.466282

South_Bounding_Coordinate: 37.193981

Keywords:

Theme:

Theme_Keyword_Thesaurus: ZION

Theme_Keyword: ZION

Access_Constraints: None

Use_Constraints: Redistribution needs permission from EFLHD/NPS

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Dan VanGilder

Contact_Organization: EFLHD

Contact_Position: GIS Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address: 21400 Ridgetop Circle

City: Sterling

State_or_Province: Virginia

Postal_Code: 20166

Country: United States

Contact_Voice_Telephone: 703-404-6361

Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov

Native_Data_Set_Environment:

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

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report: Good

Completeness_Report: Complete for routes

Lineage:

Source_Information:

Type_of_Source_Media: GPS

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: String

Point_and_Vector_Object_Count: 189

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution: 0.000000

Longitude_Resolution: 0.000000

Geographic_Coordinate_Units: Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1927

Ellipsoid_Name: Clarke 1866

Semi-major_Axis: 6378206.400000
Denominator_of_Flattening_Ratio: 294.978698

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: zion_seg

Attribute:

Attribute_Label: FID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain:

Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: Shape

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: LENGTH

Attribute_Definition: Length of feature

Attribute_Definition_Source: ESRI

Attribute:

Attribute_Label: ID

Attribute:

Attribute_Label: RTE_NO

Attribute_Definition: Route number

Attribute_Definition_Source: Route ID Meeting

Attribute:

Attribute_Label: RT_LENGTH

Attribute_Definition: Collected route length

Attribute_Definition_Source: ARAN Data Collection

Attribute:

Attribute_Label: PCR_RATEAV

Attribute_Definition:

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

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum: 0

Range_Domain_Maximum: 100

Attribute:

Attribute_Label: PCRAV

Attribute_Definition: Verbal PCR definition based on value in PCRAV field

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: POOR

Enumerated_Domain_Value_Definition: PCR value <= 60
Enumerated_Domain:
Enumerated_Domain_Value: FAIR
Enumerated_Domain_Value_Definition: PCR value 61-84
Enumerated_Domain:
Enumerated_Domain_Value: GOOD
Enumerated_Domain_Value_Definition: PCR value 85-94
Enumerated_Domain:
Enumerated_Domain_Value: EXCELLENT
Enumerated_Domain_Value_Definition: PCR value 95-100

*Attribute:**Attribute_Label:* TSR_EDIT*Attribute_Definition:* Indicates whether feature has been edited for graphic purposes.*Attribute_Domain_Values:**Enumerated_Domain:**Enumerated_Domain_Value:* 1*Enumerated_Domain_Value_Definition:* Edit has been made to feature for graphic purposes*Enumerated_Domain:**Enumerated_Domain_Value:* 0*Enumerated_Domain_Value_Definition:* No edit made to feature.*Attribute:**Attribute_Label:* ID*Attribute:**Attribute_Label:* RTE_NO*Attribute:**Attribute_Label:* BMP*Attribute:**Attribute_Label:* EMP*Attribute:**Attribute_Label:* PCR*Attribute:**Attribute_Label:* PCR_RATE*Attribute:**Attribute_Label:* RT_LENGTH*Attribute:**Attribute_Label:* PCRMI*Attribute:**Attribute_Label:* PCR_RATEMI*Attribute:**Attribute_Label:* PCR_RATEAV*Attribute:**Attribute_Label:* PCRAV*Attribute:**Attribute_Label:* TSR_EDIT*Distribution_Information:**Resource_Description:* Downloadable Data*Standard_Order_Process:*

Digital_Form:
Digital_Transfer_Information:
Transfer_Size: 0.016

Metadata_Reference_Information:
Metadata_Date: 20060124
Metadata_Contact:
Contact_Information:
Contact_Organization_Primary:
Contact_Organization: EFLHD Sterling
Contact_Person: Dan VanGilder
Contact_Position: GIS Coordinator
Contact_Address:
Address_Type: mailing and physical address
City: Sterling
State_or_Province: Virginia
Postal_Code: 20166
Country: United States
Contact_Voice_Telephone: 703-404-6361
Contact_Electronic_Mail_Address: dvangilder@fhwa.dot.gov
Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Time_Convention: local time
Metadata_Extensions:
Online_Linkage: <<http://www.esri.com/metadata/esriprof80.html>>
Profile_Name: ESRI Metadata Profile

Generated by [mp](#) version 2.7.33 on Tue Jan 24 10:03:39 2006