The Road Inventory
of
Lake Meredith National Recreation Area
LAMR - 7540

national park service

Road Inventory Program

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

Lake Meredith National Recreation Area
in
Texas

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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.

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Lake Meredith National Recreation Area Summaries

Overall Park Mileage Summary

PARK TOTAL SUMMARY ITEMS	TOTAL	DATE
Paved ARAN Driven Route Miles	18.76	3/10/2003
Unpaved Estimated Route Miles	19.10	3/10/2003
Paved ARAN and Unpaved Route Miles	37.86	
Paved ARAN Driven Lane Miles	36.99	3/10/2003
Paved MRR Lane Miles	0.00	
Parking Lot Lane Miles	16.66	3/10/2003
Total Paved Lane Miles	53.65	

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)

Lake Meredith National Recreation Area 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	6.21	$186,300
Good	3.53	$388,300
Fair	7.24	$4,054,400
Poor	1.78	$2,741,200
Totals	**18.76**	**$7,370,200**

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).

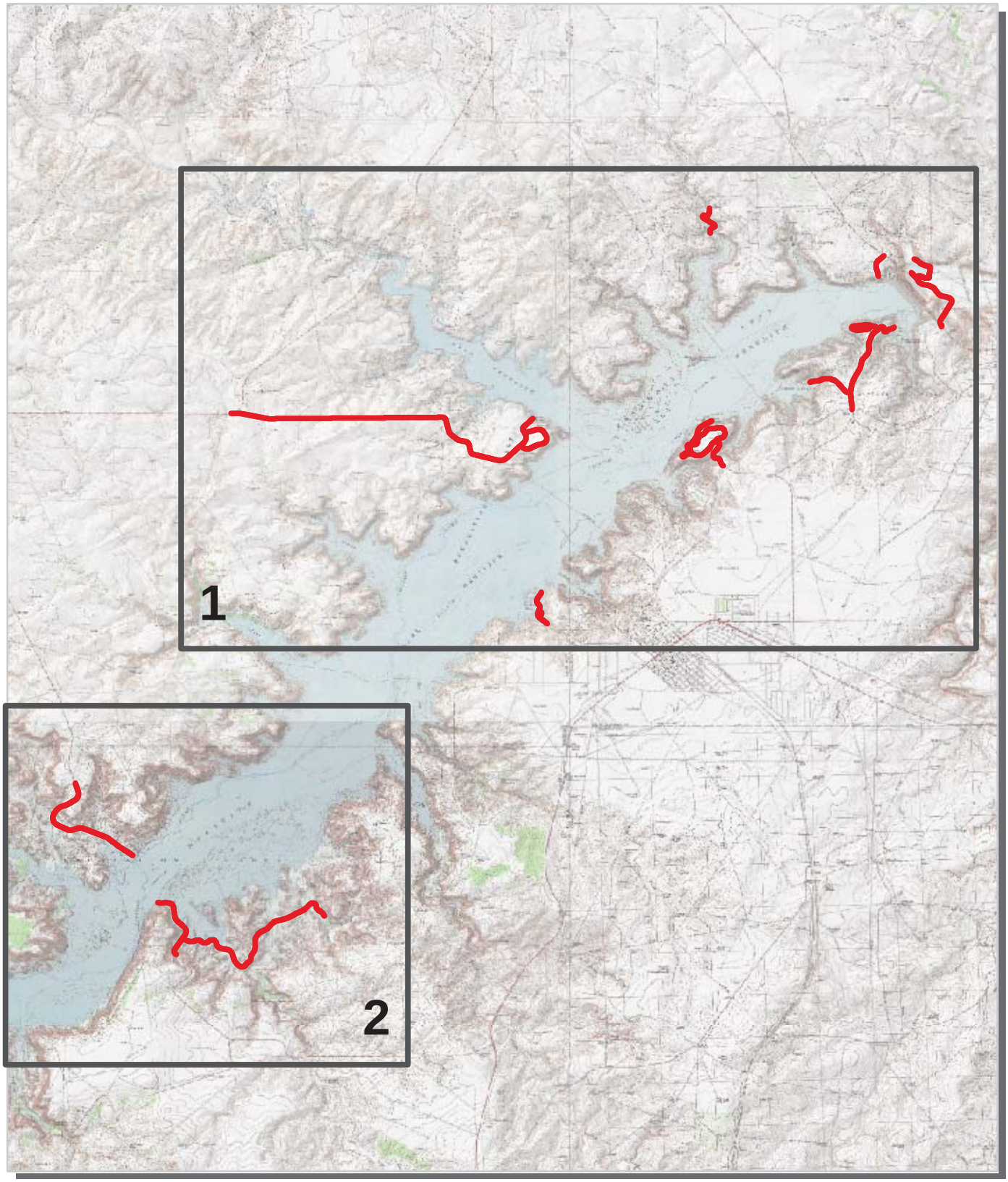
These numbers are for preliminary planning purposes only and should not be used for project level proposals. For park planning level analysis, apply your park multiplier for more accurate regional costs.

Lake Meredith National Recreation Area 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									
2	1.25	6.66%	5.34	28.46%	2.27	12.10%	4.21	22.44%	13.07
3	0.53	2.83%	1.90	10.13%	1.26	6.72%	2.00	10.66%	5.69
4									
5									
6									
7									
8									
Totals	**1.78**	**9.49%**	**7.24**	**38.59%**	**3.53**	**18.82%**	**6.21**	**33.10%**	**18.76**

Lake Meredith National Recreation Area
Route Location
Key Map



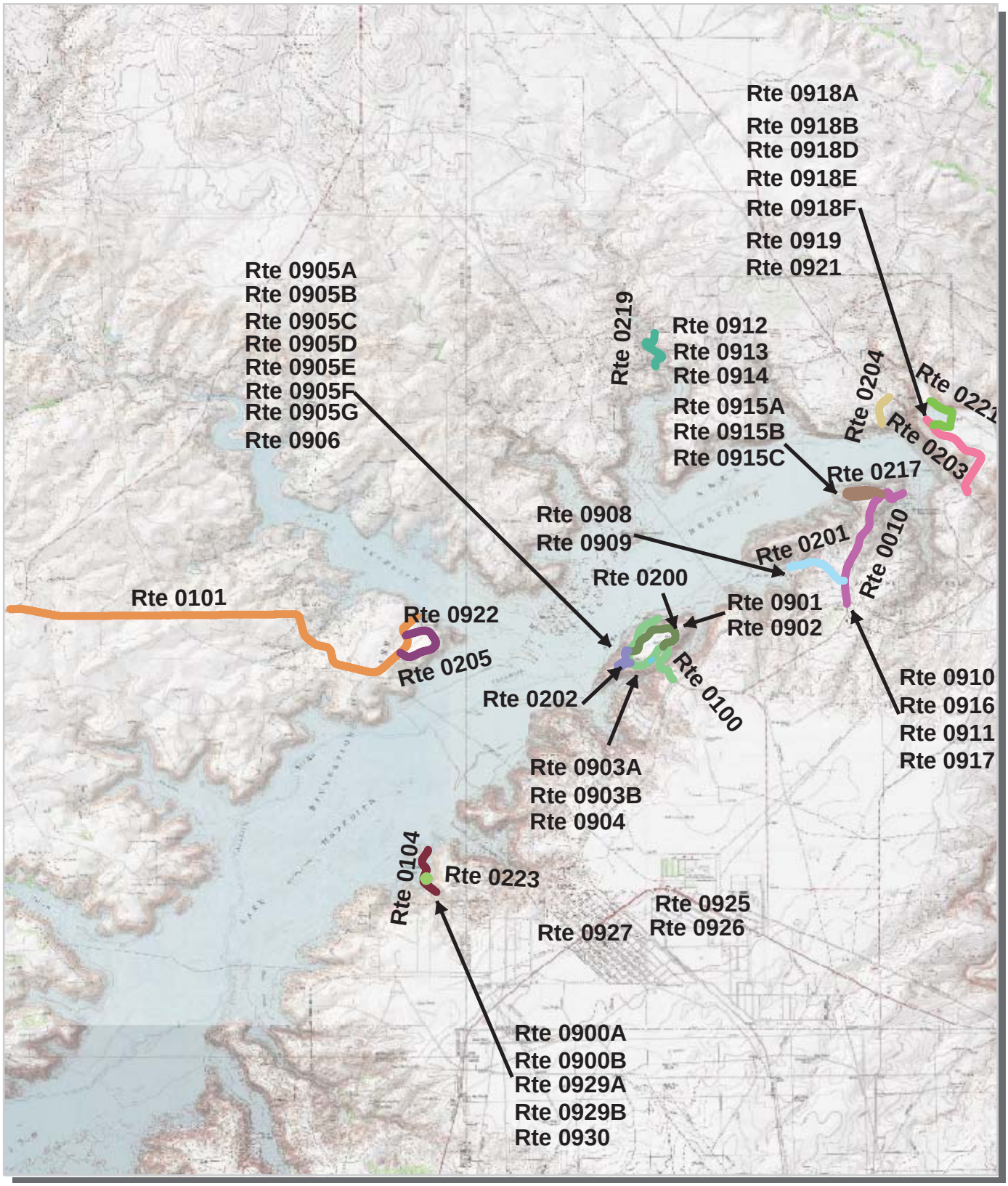
Park Owned Routes

2 1 0 2 Miles

N

3-1

Lake Meredith National Recreation Area
Route Location
Area Map 1

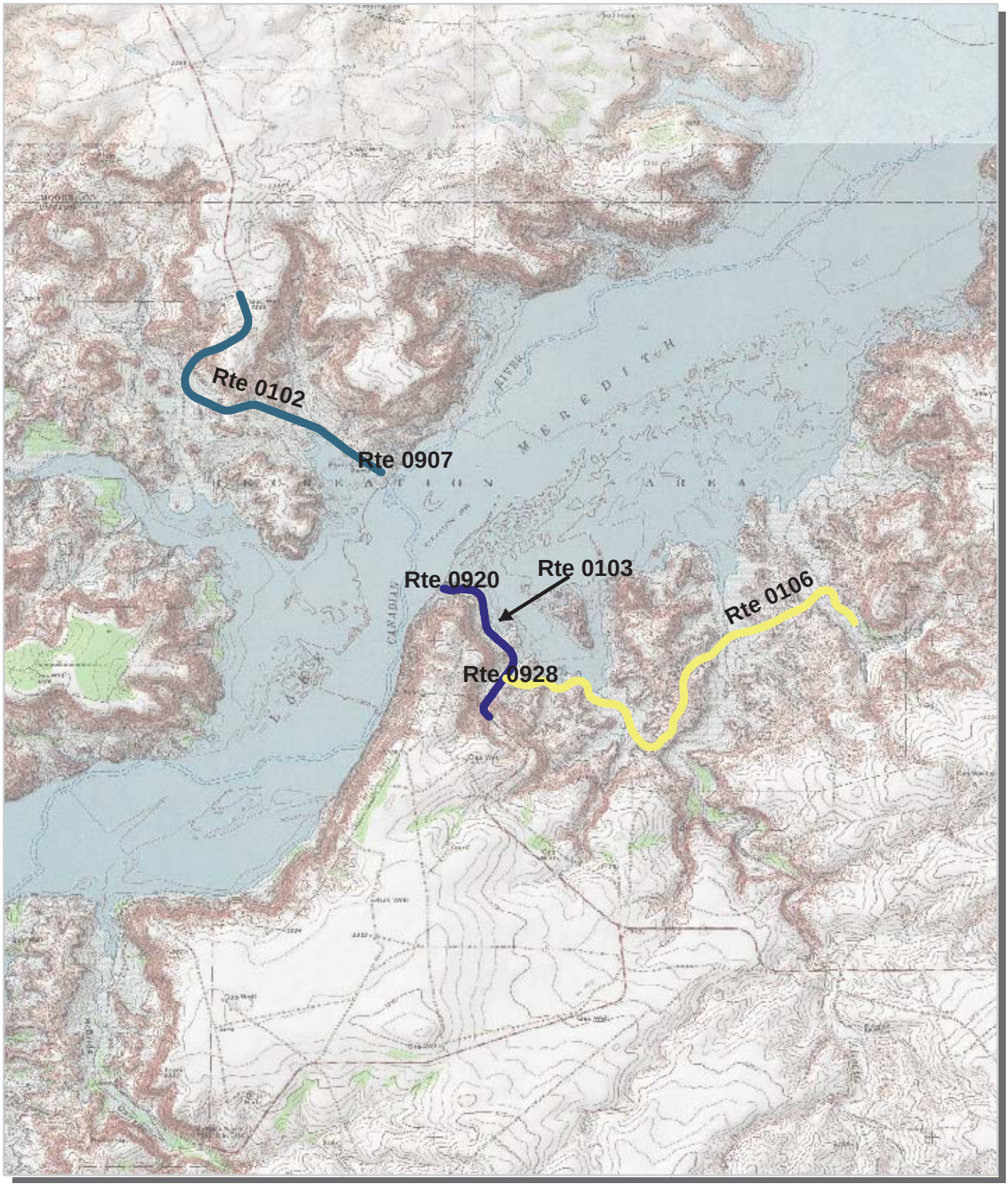


Unique colors used to differentiate routes

2 1 0 2 Miles

N

Lake Meredith National Recreation Area
Route Location
Area Map 2

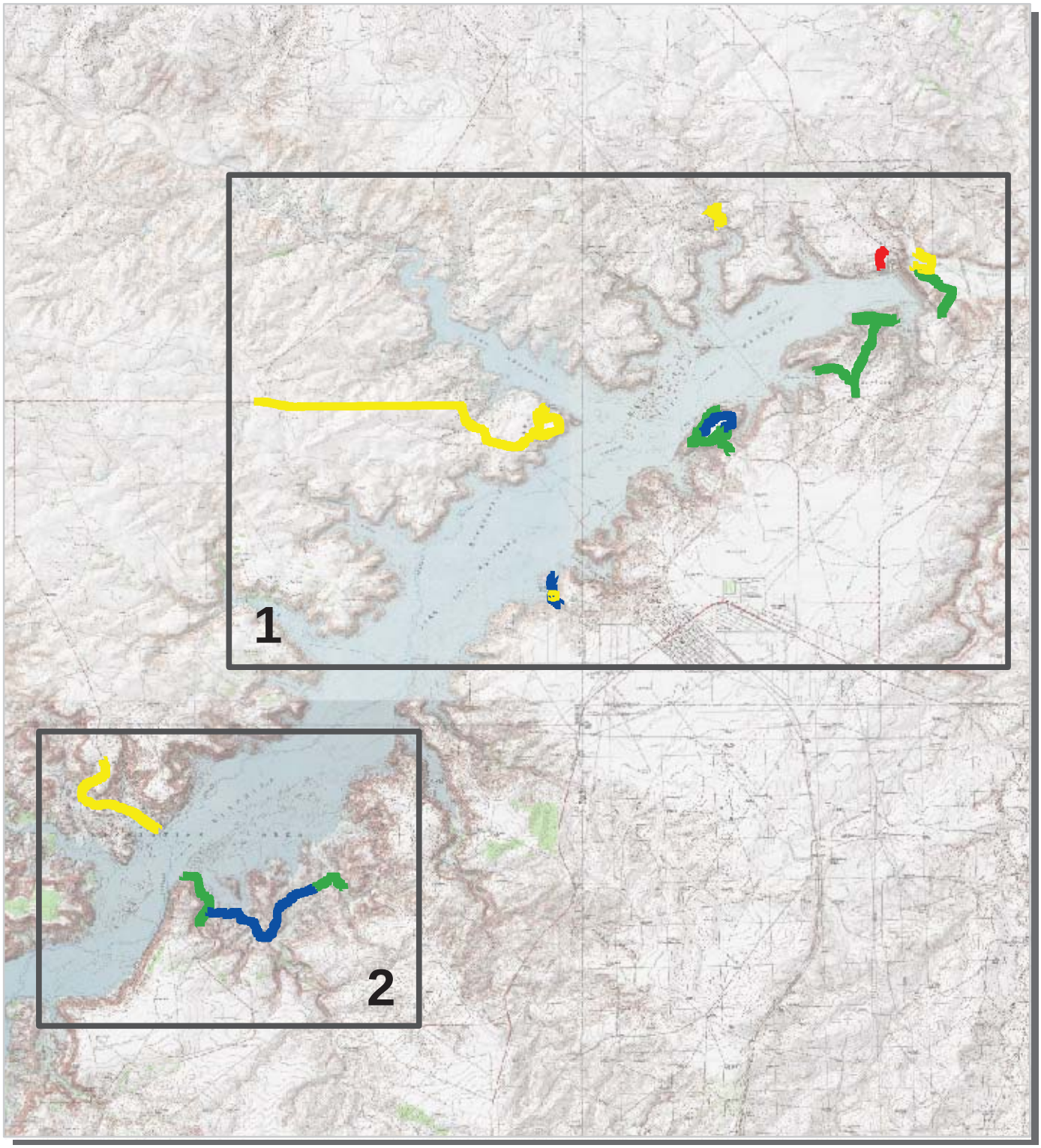


Unique colors used to differentiate routes

1 0.5 0 1 Miles

N

Lake Meredith National Recreation Area
Route Condition Key Map
PCR - Mile by Mile



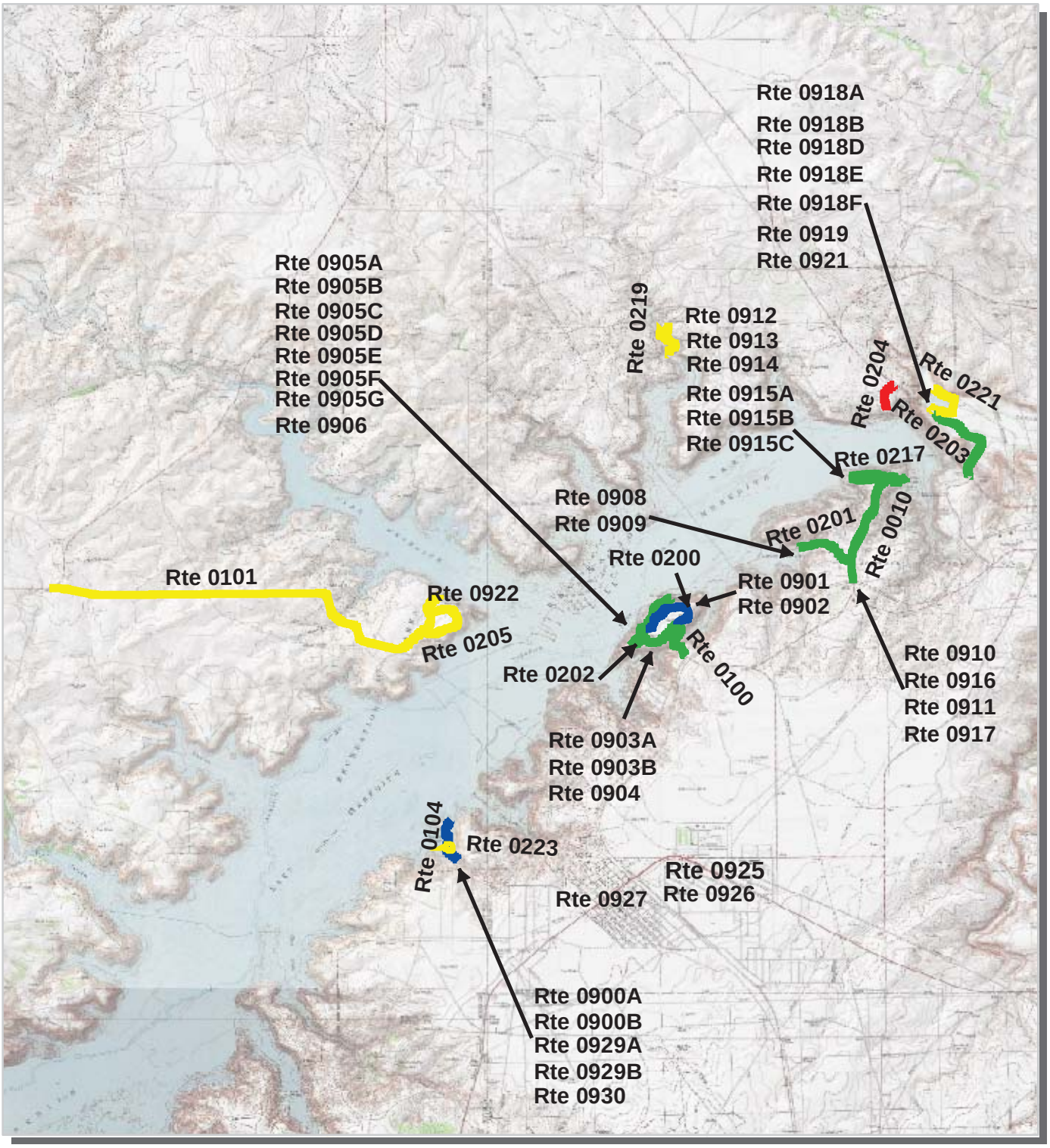
PCR	Poor	Fair	Good	Excellent
	(<=60)	(61 - 84)	(85 - 94)	(95 - 100)

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

2 1 0 2 Miles

N

Lake Meredith National Recreation Area
Route Condition Area Map 1
PCR - Mile by Mile



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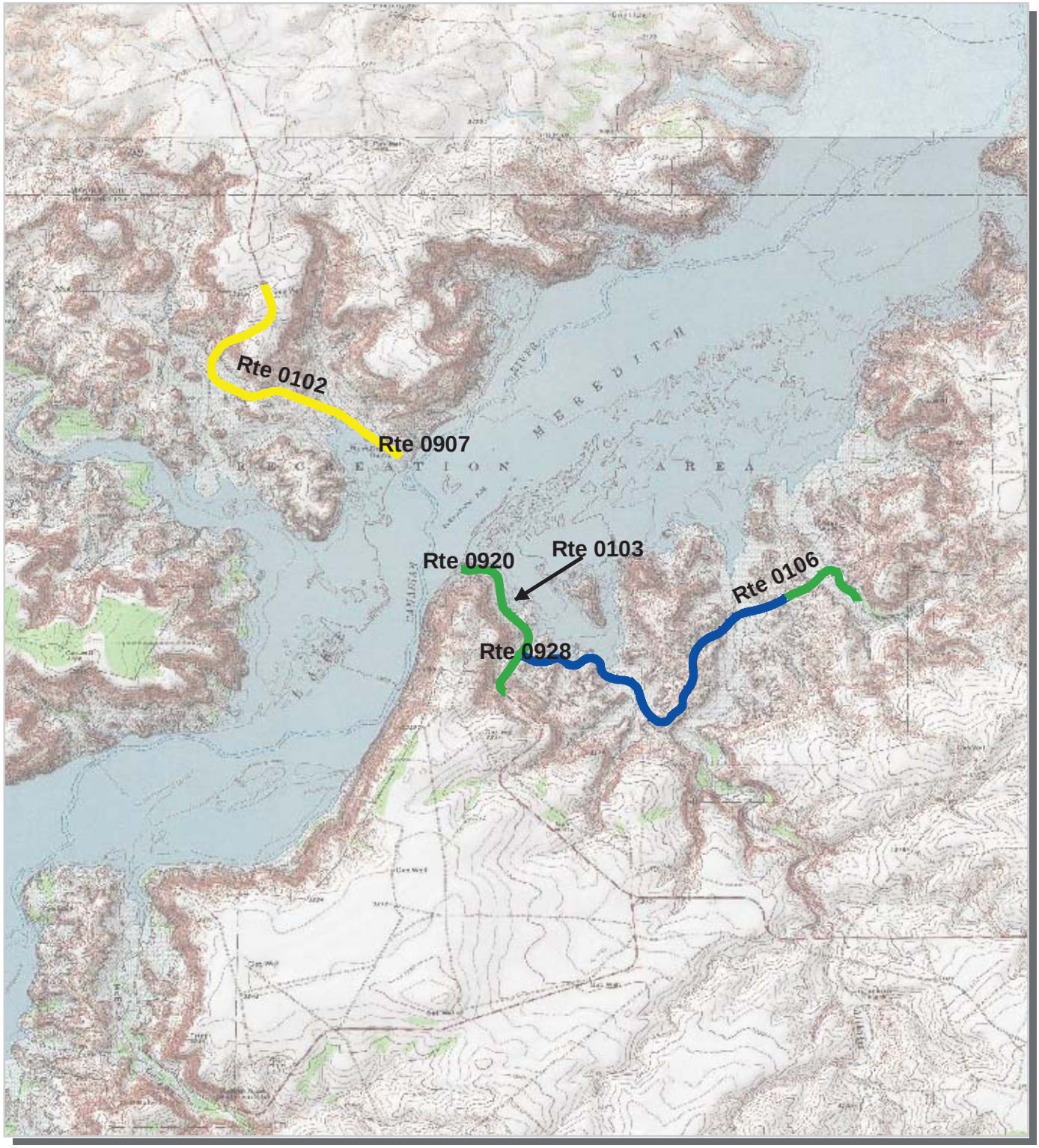
2 1 0 2 Miles

N

Lake Meredith National Recreation Area
Route Condition Area Map 2
PCR - Mile by Mile



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	(<=60)	(61 - 84)	(85 - 94)	(95 - 100)

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1 0.5 0 1 Miles

N

NPS/RIP Route ID Report

(Numerical By Route #)

Shading Color Key:
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White = Paved Routes, ARAN Driven
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Red =
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Purple =

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Lake Meredith National Recreation Area

Rte. #	FMSS Asset #	Route Name	Route Description From	Route Description To	Paved Miles	Un-Paved Miles	Rte. Lgth	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type
0010	83127	SANFORD YAKE ROAD	From East Park Boundary	To End (Boat Ramp)	1.51	0.00	1.51	2	2	0	AS
0100	83128	FRITCH FORTRESS ROAD	From West Park Boundary	To End of Boat Ramp	1.42	0.00	1.42	2	2	0	AS
0101	83129	BLUE WEST ACCESS ROAD	From State Highway 1913	To End (Boat Ramp)	4.28	0.00	4.28	2	2	0	OC
0102	83130	PLUM CREEK ACCESS ROAD	From North Park Boundary	To End (Boat Ramp)	1.80	0.00	1.80	2	2	0	OC
0103	83131	BATES CANYON ROAD	From Cass Johnson Road	To End	0.99	0.00	0.99	2	2	0	AS
0104	83132	HARBOR BAY ROAD	From West Park Boundary	To End of Boat Ramp	0.53	0.00	0.53	2	2	0	OC
0105	83133	ROSITA AREA ACCESS ROAD	From East Park Boundary	To Bultaco Hill	0.00	2.03	2.03	2	2	0	OT
0106		ALIBATES TOUR ROAD	From Route 0103	To End	2.54	0.00	2.54	2	2	0	AS
0200	83134	FRITCH AMPHITHEATER ROAD	From Route 0100	To Route 0100	0.76	0.00	0.76	3	2	0	AS
0201	83135	CEDAR CANYON ACCESS ROAD	From Route 0010	To End (Boat Ramp)	0.58	0.00	0.58	3	2	0	AS
0202	83136	FRITCH PICNIC ROAD	From Route 0100	To Route 0100	0.37	0.00	0.37	3	2	0	AS
0203	83137	STILLING BASIN ROAD	From State Highway 1319	To End	1.07	0.00	1.07	3	2	0	AS
0204	83138	NORTH VIEW POINT ROAD	From State Highway 1319	To Route 0921	0.33	0.00	0.33	3	2	0	AS
0205	83139	BLUE WEST PICNIC ROAD	From Route 0101	To Route 0101	0.73	0.00	0.73	3	2	0	OC
0206	83140	NORTH CANYON ACCESS ROAD	From Route 0204	To End	0.00	0.92	0.92	3	1	0	OT
0208	83141	LOWER PLUM CREEK ROAD	From Route 0102	To End	0.00	2.45	2.45	3	2	0	OT
0209	83142	UPPER PLUM CREEK ROAD	From Route 0102	To End	0.00	2.02	2.02	3	2	0	OT
0211	83143	BLUE CREEK PICNIC ROAD	From State Highway 1913	To End	0.00	0.76	0.76	3	2	0	OT
0212	83144	MCBRIDE RANCH ROAD	From West Park Boundary	To End of Loop	0.00	3.38	3.38	3	2	0	OT
0213	83145	LOWER MCBRIDE ROAD	From Route 0212	To End	0.00	2.19	2.19	3	1	0	OT
0217	83146	SANFORD YAKE CAMPGROUND LOOP	From Route 0010	To End of Loop	0.61	0.00	0.61	3	2	0	AS
0218	83147	CHIMNEY HOLLOW ROAD	From Route 0101	To End	0.00	0.78	0.78	3	1	0	OT
0219	83149	BUGBEE ACCESS ROAD	From North Park Boundary (Bugbee Drive)	To End	0.53	0.00	0.53	3	2	0	OC
0220	83150	BUGBEE FISHING ACCESS ROAD	From Route 0219	To End	0.00	2.95	2.95	3	1	0	OT
0221	83151	SPRING CANYON ROAD	From Route 0203	To End of Loop	0.55	0.00	0.55	3	2	0	AS
0222	83152	DOLIMITE POINT ROAD	From Route 0106	To End	0.00	1.62	1.62	3	1	0	OT
0223		HARBOR BAY PICNIC ROAD	From Route 0104	To Route 0104	0.16	0.00	0.16	3	1	0	AS
0900A		HARBOR BAY PARKING A	From Route 0104	To Parking	0.00	0.00	0.00	9	0	3,055	AS
0900B		HARBOR BAY PARKING B	From Route 0104	To Parking	0.00	0.00	0.00	9	0	57,247	AS

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LAMR

Lake Meredith National Recreation Area

Rte. #	FMSS Asset #	Route Name	Route Description From	Route Description To	Paved Miles	Un-Paved Miles	Rte. Lgth	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type
0901		AMPHITHEATER PARKING	From Route 0200	To Route 0200	0.00	0.00	0.00	9	0	94,140	AS
0902		AMPHITHEATER OVERFLOW PARKING	From Route 0200	To Route 0200	0.00	0.00	0.00	9	0	25,528	AS
0903A		COMFORT STATION PARKING	From Route 0202	To Parking	0.00	0.00	0.00	9	0	1,929	AS
0903B		COMFORT STATION PARKING	From Route 0202	To Parking	0.00	0.00	0.00	9	0	2,531	AS
0904		FRITCH FORTRESS PARKING	From Route 0100	To Parking	0.00	0.00	0.00	9	0	58,597	AS
0905A		FRITCH PICNIC PARKING	From Route 0202	To Parking	0.00	0.00	0.00	9	0	1,339	AS
0905B		FRITCH PICNIC PARKING	From Route 0202	To Parking	0.00	0.00	0.00	9	0	1,367	AS
0905C		FRITCH PICNIC PARKING	From Route 0202	To Parking	0.00	0.00	0.00	9	0	1,421	AS
0905D		FRITCH PICNIC PARKING	From Route 0202	To Parking	0.00	0.00	0.00	9	0	956	AS
0905E		FRITCH PICNIC PARKING	From Route 0202	To Parking	0.00	0.00	0.00	9	0	1,027	AS
0905F		FRITCH PICNIC PARKING	From Route 0202	To Parking	0.00	0.00	0.00	9	0	1,358	AS
0905G		FRITCH PICNIC PARKING	From Route 0202	To Parking	0.00	0.00	0.00	9	0	1,893	AS
0906		FRITCH DUMP STATION	From Route 0100	To Parking	0.00	0.00	0.00	9	0	7,912	AS
0907		PLUM CREEK PARKING	From Route 0102	To Parking	0.00	0.00	0.00	9	0	82,807	NC
0908		CEDAR CANYON PARKING	From Route 0201	To Route 0909	0.00	0.00	0.00	9	0	62,404	AS
0909		CEDAR CANYON OVERFLOW PARKNG	From Route 0908	To Parking	0.00	0.00	0.00	9	0	53,049	AS
0910		CEDAR CANYON DUMP CLEAN WATER STATION	From Route 0010	To Parking	0.00	0.00	0.00	9	0	7,997	AS
0911		CEDAR CANYON CAMPGROUND KIOSK	From Route 0010	To Route 0201	0.00	0.00	0.00	9	0	3,684	AS
0912		SANFORD YAKE UPPER MARINA PARKING	From Route 0010	To Parking	0.00	0.00	0.00	9	0	139,769	AS
0913		SANFORD YAKE LOWER MARINA PARKING	From Route 0010	To Parking	0.00	0.00	0.00	9	0	19,928	AS
0914		SANFORD YAKE COMFORT STATION PARKING	From Route 0217	To Parking	0.00	0.00	0.00	9	0	6,642	AS
0915A		SANFORD YAKE CAMPGROUND PARKING	From Route 0217	To Parking	0.00	0.00	0.00	9	0	3,094	AS
0915B		SANFORD YAKE CAMPGROUND PARKING	From Route 0217	To Parking	0.00	0.00	0.00	9	0	3,577	AS
0915C		SANFORD YAKE CAMPGROUND PARKING	From Route 0217	To Parking	0.00	0.00	0.00	9	0	1,174	AS
0916		RANGER STATION PARKING	From Route 0010	To Parking	0.00	0.00	0.00	9	0	32,610	AS
0917		MAINTENANCE AREA	From Route 0916	To Maintenance Area	0.00	0.00	0.00	9	0	41,127	AS

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(Numerical By Route #)

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LAMR

Lake Meredith National Recreation Area

Rte. #	FMSS Asset #	Route Name	Route Description From	Route Description To	Paved Miles	Un-Paved Miles	Rte. Lgth	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type
0918A		SPRING CANYON PARKING	From Route 0221	To Parking	0.00	0.00	0.00	9	0	11,878	AS
0918B		SPRING CANYON PARKING	From Route 0221	To Parking	0.00	0.00	0.00	9	0	3,207	AS
0918C		SPRING CANYON PARKING	From Route 0221	To Parking	0.00	0.00	0.00	9	0	2,146	AS
0918D		SPRING CANYON PARKING	From Route 0221	To Parking	0.00	0.00	0.00	9	0	1,860	AS
0918E		SPRING CANYON PARKING	From Route 0221	To Parking	0.00	0.00	0.00	9	0	12,796	AS
0918F		SPRING CANYON PARKING F	From Route 0203	To Parking	0.00	0.00	0.00	9	0	6,385	AS
0919		SPRING CANYON KIOSK PARKING	From Route 0203	To Route 0203	0.00	0.00	0.00	9	0	14,184	AS
0920		BATES CANYON PARKING	From Route 0103	To Parking	0.00	0.00	0.00	9	0	41,389	AS
0921		NORTH VIEW POINT PARKING	From Route 0204	To Parking	0.00	0.00	0.00	9	0	8,881	AS
0922		BLUE WEST UPPER PARKING	From Route 0205	To Parking	0.00	0.00	0.00	9	0	87,589	NC
0923		BLUE WEST LOWER PARKING	From Route 0101	To Parking	0.00	0.00	0.00	9	0	30,000	GR
0924		BUGBEE PICNIC AREA	From Route 0219	To Parking	0.00	0.00	0.00	9	0	1,070	AS
0925		PARK HEADQUARTERS VISITOR PARKING	From State Highway 136	To Route 0926	0.00	0.00	0.00	9	0	7,860	AS
0926		PARK HEADQUARTERS ADMINISTRATIVE PARKING	From Route 0925	To Parking	0.00	0.00	0.00	9	0	12,966	AS
0927		AQUATIC AND MUESUM PARKING	From State Highway 136	To Parking	0.00	0.00	0.00	9	0	6,973	AS
0928		CONTACT STATION PARKING	From Route 0106	To Parking	0.00	0.00	0.00	9	0	24,289	AS
0929A		HARBOR BAY PICNIC PARKING A	From Route 0223	To Parking	0.00	0.00	0.00	9	0	1,180	AS
0929B		HARBOR BAY PICNIC PARKING B	From Route 0223	To Parking	0.00	0.00	0.00	9	0	1,049	AS
0930		HARBOR BAY KIOSK	From Route 0104	To Parking	0.00	0.00	0.00	9	0	3,915	AS
				Totals:	18.76	19.10	**37.86**			997,780	

NPS/RIP Route ID Report

(Numerical By Route #)

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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 Invetoried 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.

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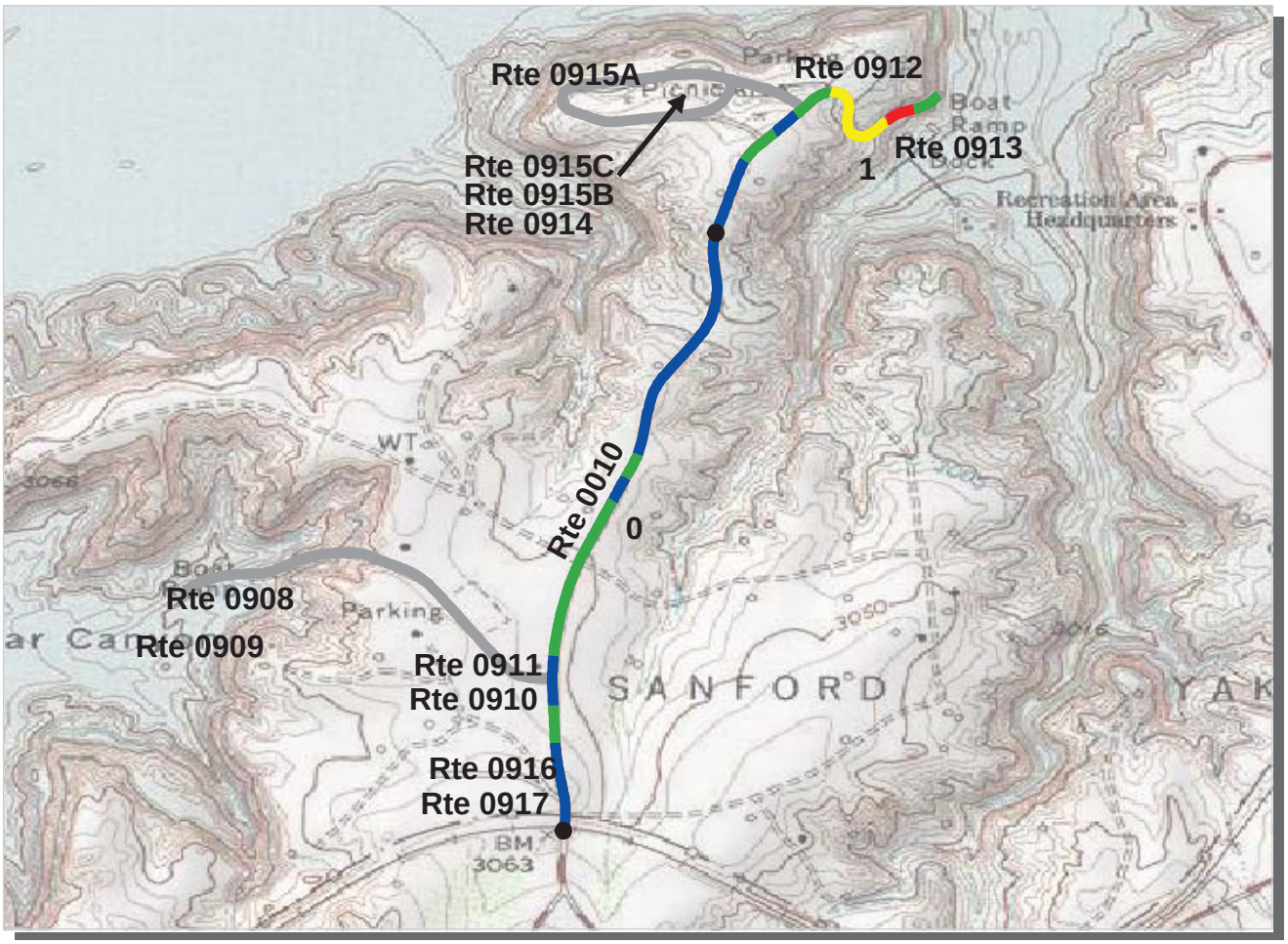
A park road system contains those roads within or giving access to a park or other unit of the NPS which are administered by the NPS, or by the Service in cooperation with other agencies. The assignment of a functional classification (FC) to a park road is not based on traffic volumes or design speed,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

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



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.

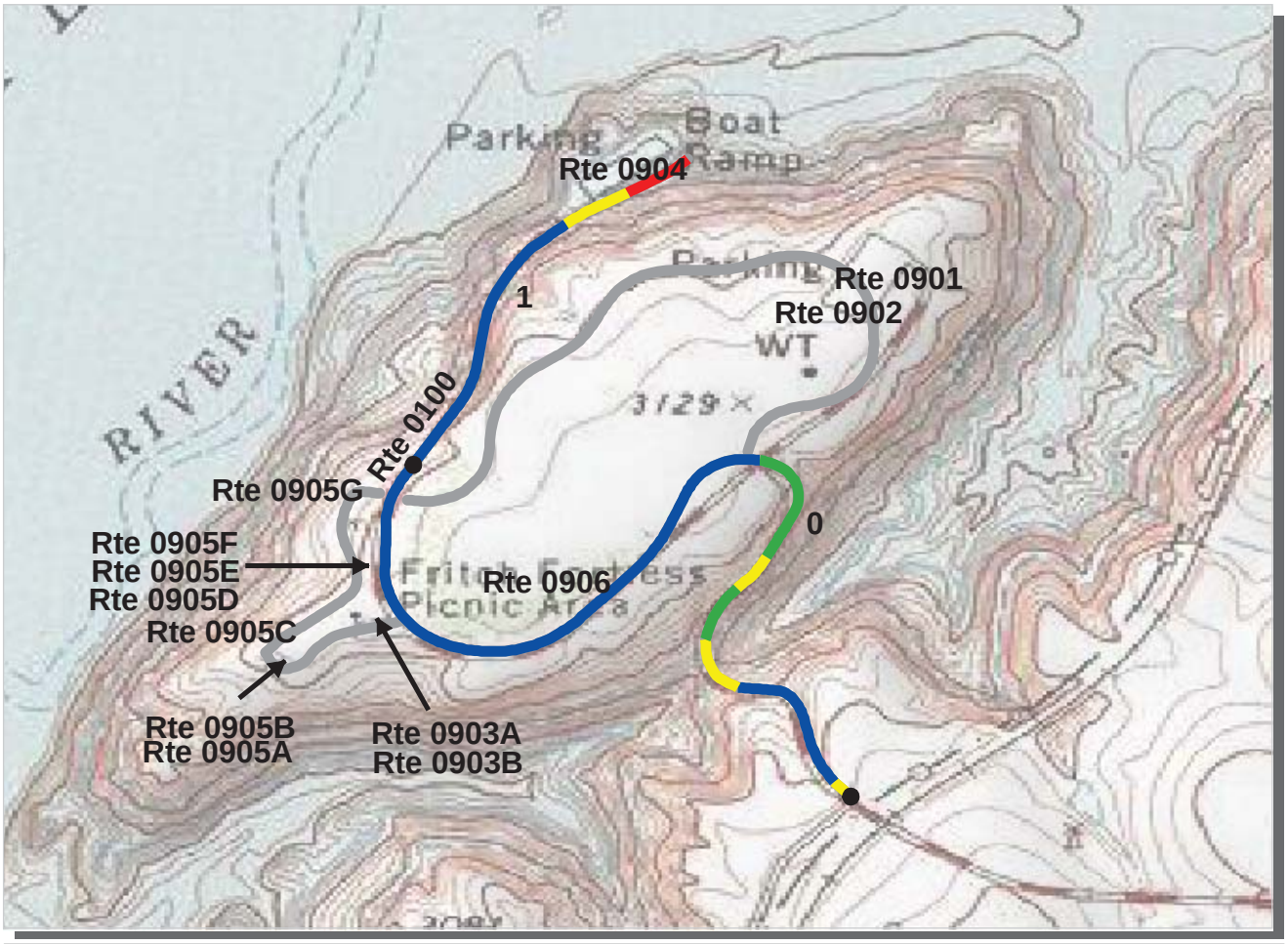
Intermountain Region
LAMR : Lake Meredith National Recreation Area

ROUTE: 0010 SANFORD YAKE ROAD **TOTAL LENGTH: 1.51 Miles**

Section Number	0	1			
Section Length (mi)	1.00	0.51			
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2			
Paved Width (ft)	21	20			
Lane Width (ft)	10	10			
Shoulder Width (ft)	3	3			
Roadway Condition Information					
PCR (Pavement Condition Rating)	94	85			
RCI (Roughness Condition Index)	98	81			
SCR (Surface Condition Rating)	91	87			
Alligator Cracking Index	100	100			
Rutting Index	98	90			
Patching Index	100	99			
Tranverse Cracking Index	95	98			
Longitudinal Cracking Index	97	98			
Shoulder Condition Rating	GOOD	GOOD			
Drainage Condition Rating	GOOD	GOOD			

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

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



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
LAMR : Lake Meredith National Recreation Area

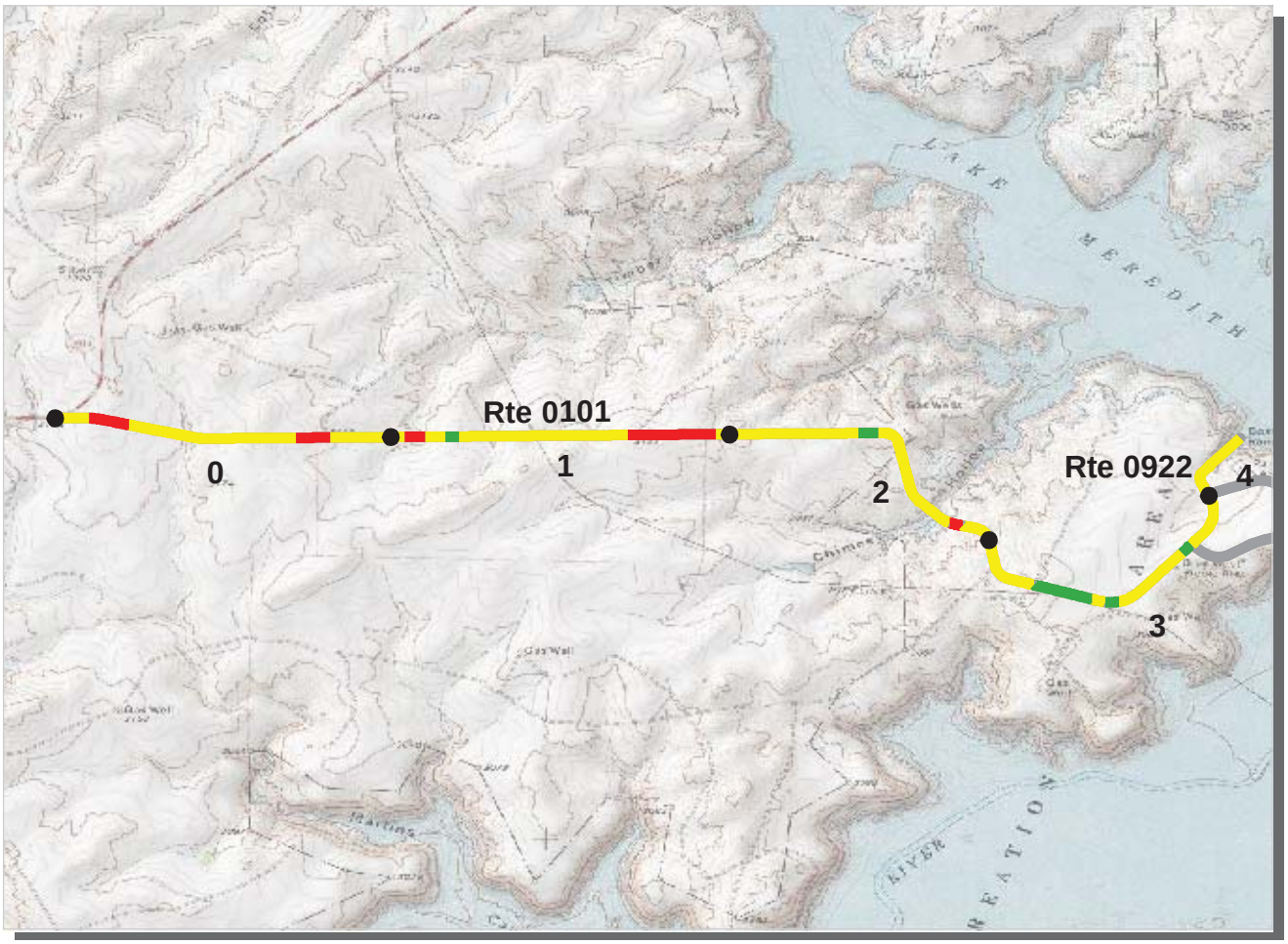
ROUTE: 0100 FRITCH FORTRESS ROAD **TOTAL LENGTH: 1.42 Miles**

Section Number	0	1			
Section Length (mi)	1.00	0.42			
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2			
Paved Width (ft)	25	25			
Lane Width (ft)	12	12			
Shoulder Width (ft)	5	5			
Roadway Condition Information					
PCR (Pavement Condition Rating)	94	87			
RCI (Roughness Condition Index)	95	78			
SCR (Surface Condition Rating)	93	93			
Alligator Cracking Index	99	100			
Rutting Index	96	93			
Patching Index	100	100			
Tranverse Cracking Index	99	100			
Longitudinal Cracking Index	98	99			
Shoulder Condition Rating	GOOD	GOOD			
Drainage Condition Rating	GOOD	GOOD			

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

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

ROUTE: 0100 FRITCH FORTRESS ROAD



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

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

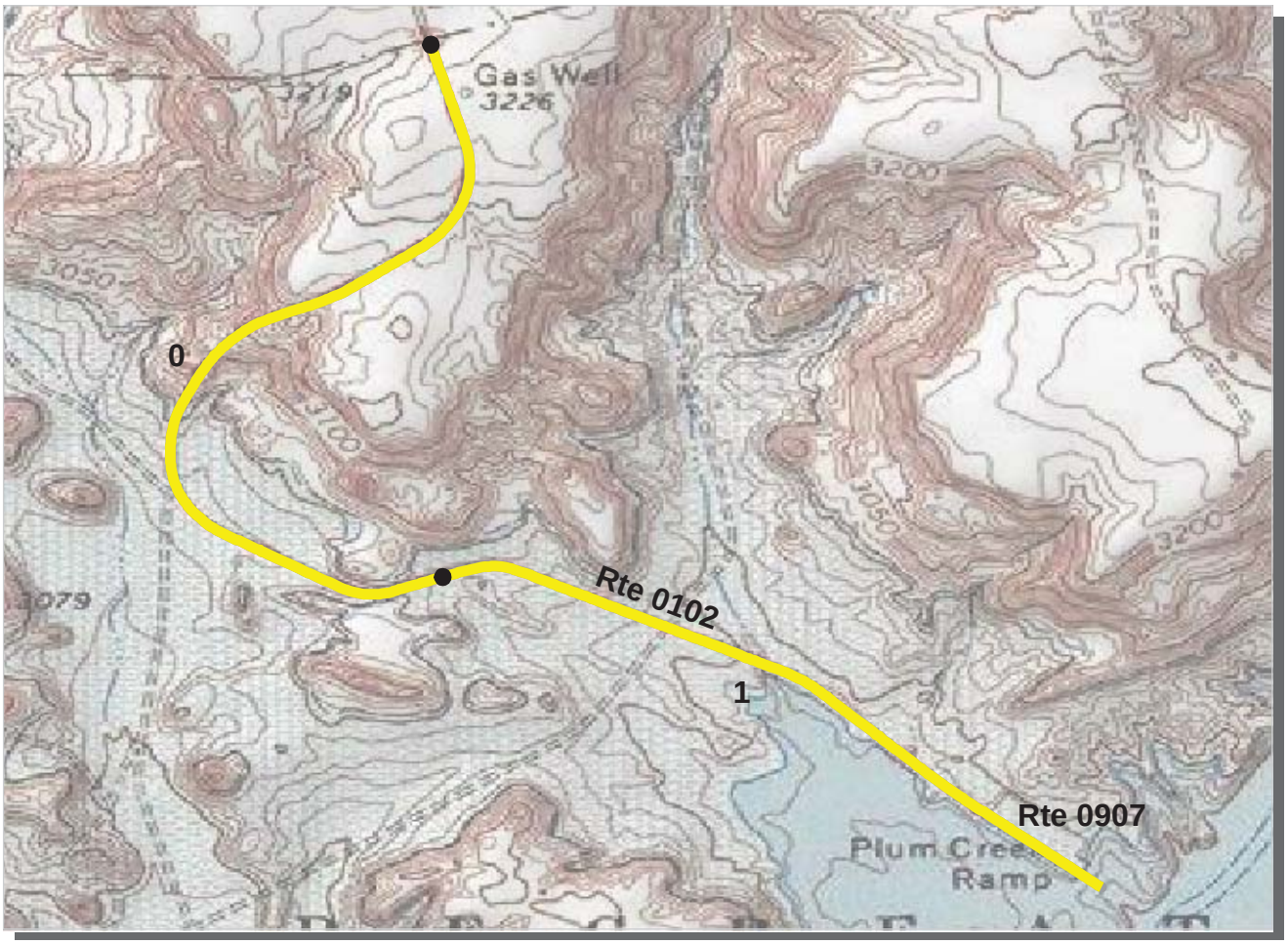
Intermountain Region
LAMR : Lake Meredith National Recreation Area

ROUTE: 0101 BLUE WEST ACCESS ROAD **TOTAL LENGTH: 4.28 Miles**

Section Number	0	1	2	3	4
Section Length (mi)	1.00	1.00	1.00	1.00	0.28
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	18	19	20	21	21
Lane Width (ft)	9	9	10	10	11
Shoulder Width (ft)	7	7	4	6	5
Roadway Condition Information					
PCR (Pavement Condition Rating)	64	63	72	81	69
RCI (Roughness Condition Index)	63	65	70	93	70
SCR (Surface Condition Rating)	65	61	73	73	67
Alligator Cracking Index	100	98	99	100	100
Rutting Index	70	66	76	75	67
Patching Index	100	99	99	99	100
Tranverse Cracking Index	96	97	98	99	100
Longitudinal Cracking Index	98	99	98	99	99
Shoulder Condition Rating	GOOD	GOOD	GOOD	GOOD	GOOD
Drainage Condition Rating	GOOD	GOOD	GOOD	GOOD	GOOD

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

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



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (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
LAMR : Lake Meredith National Recreation Area

ROUTE: 0102 PLUM CREEK ACCESS ROAD **TOTAL LENGTH: 1.80 Miles**

Section Number	0	1			
Section Length (mi)	1.00	0.80			
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2			
Paved Width (ft)	21	21			
Lane Width (ft)	10	10			
Shoulder Width (ft)	6	6			
Roadway Condition Information					
PCR (Pavement Condition Rating)	71	72			
RCI (Roughness Condition Index)	81	83			
SCR (Surface Condition Rating)	65	65			
Alligator Cracking Index	100	100			
Rutting Index	65	65			
Patching Index	99	100			
Tranverse Cracking Index	99	100			
Longitudinal Cracking Index	99	99			
Shoulder Condition Rating	GOOD	GOOD			
Drainage Condition Rating	GOOD	GOOD			

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

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

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.

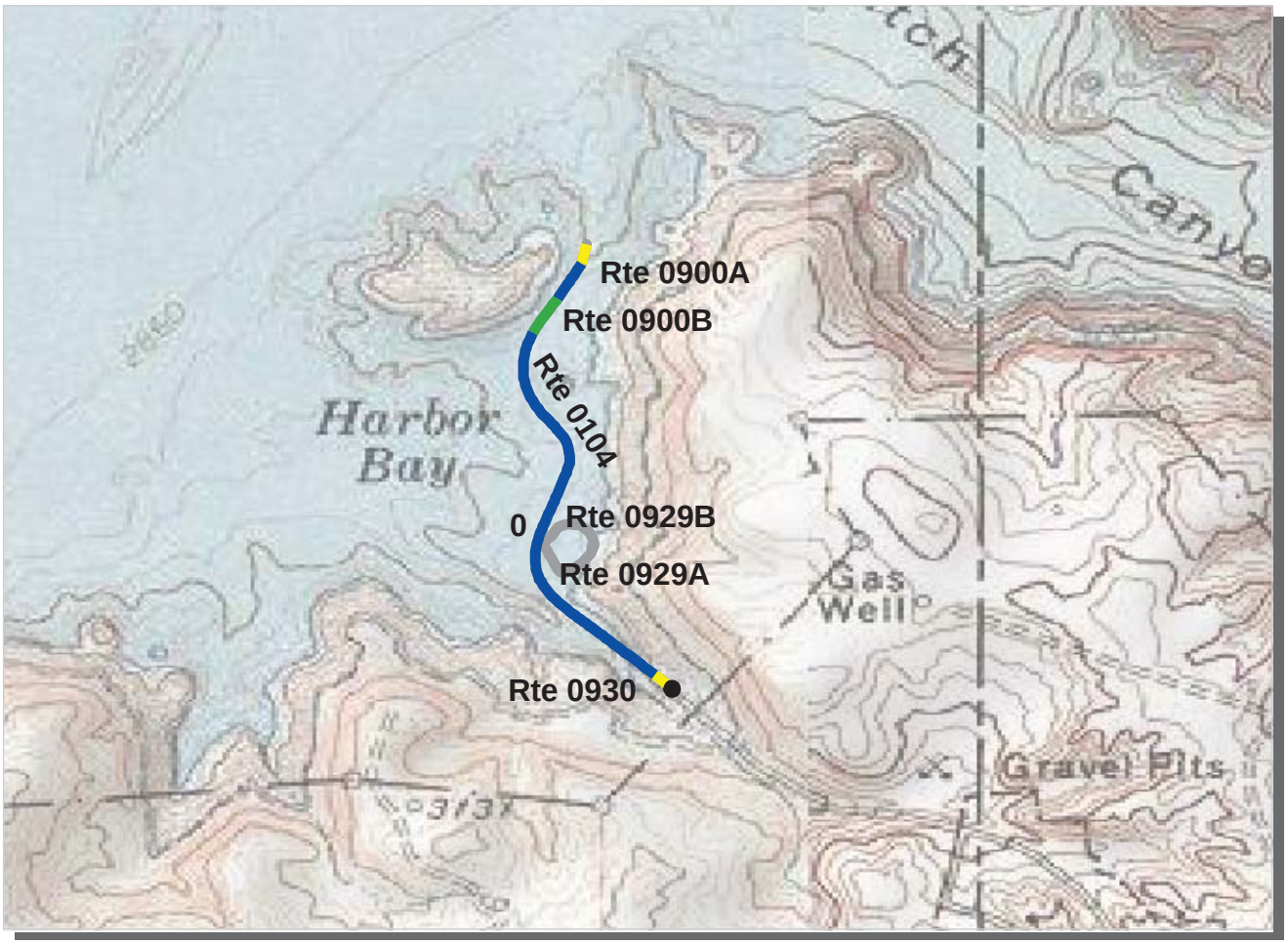
Intermountain Region
LAMR : Lake Meredith National Recreation Area

ROUTE: 0103 BATES CANYON ROAD **TOTAL LENGTH: 0.99 Miles**

Section Number	0				
Section Length (mi)	0.99				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	28				
Lane Width (ft)	14				
Shoulder Width (ft)	8				
Roadway Condition Information					
PCR (Pavement Condition Rating)	86				
RCI (Roughness Condition Index)	91				
SCR (Surface Condition Rating)	85				
Alligator Cracking Index	97				
Rutting Index	93				
Patching Index	100				
Tranverse Cracking Index	96				
Longitudinal Cracking Index	96				
Shoulder Condition Rating	GOOD				
Drainage Condition Rating	GOOD				

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

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



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (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
LAMR : Lake Meredith National Recreation Area

ROUTE: 0104 HARBOR BAY ROAD **TOTAL LENGTH: 0.53 Miles**

Section Number	0				
Section Length (mi)	0.53				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	21				
Lane Width (ft)	10				
Shoulder Width (ft)	5				
Roadway Condition Information					
PCR (Pavement Condition Rating)	95				
RCI (Roughness Condition Index)	96				
SCR (Surface Condition Rating)	95				
Alligator Cracking Index	100				
Rutting Index	96				
Patching Index	100				
Tranverse Cracking Index	99				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	GOOD				
Drainage Condition Rating	GOOD				

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

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

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

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

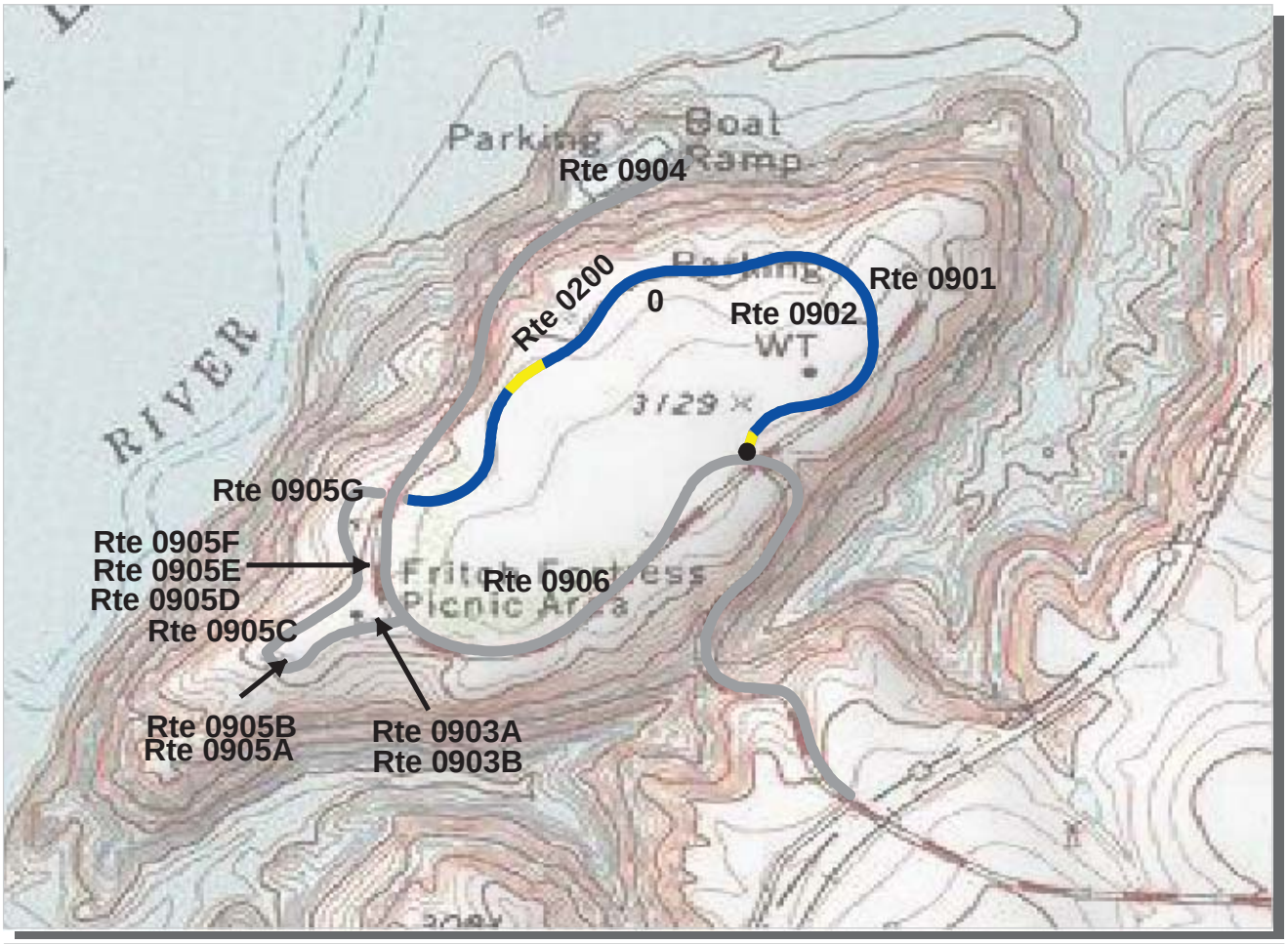
Intermountain Region
LAMR : Lake Meredith National Recreation Area

ROUTE: 0106 ALIBATES TOUR ROAD **TOTAL LENGTH: 2.54 Miles**

Section Number	0	1	2		
Section Length (mi)	1.00	1.00	0.54		
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2	2	2		
Paved Width (ft)	19	19	22		
Lane Width (ft)	10	10	12		
Shoulder Width (ft)	3	3	5		
Roadway Condition Information					
PCR (Pavement Condition Rating)	95	95	91		
RCI (Roughness Condition Index)	97	95	92		
SCR (Surface Condition Rating)	93	95	90		
Alligator Cracking Index	100	100	100		
Rutting Index	95	95	92		
Patching Index	100	100	100		
Tranverse Cracking Index	99	99	99		
Longitudinal Cracking Index	99	99	99		
Shoulder Condition Rating	GOOD	GOOD	GOOD		
Drainage Condition Rating	GOOD	GOOD	GOOD		

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

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



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
LAMR : Lake Meredith National Recreation Area

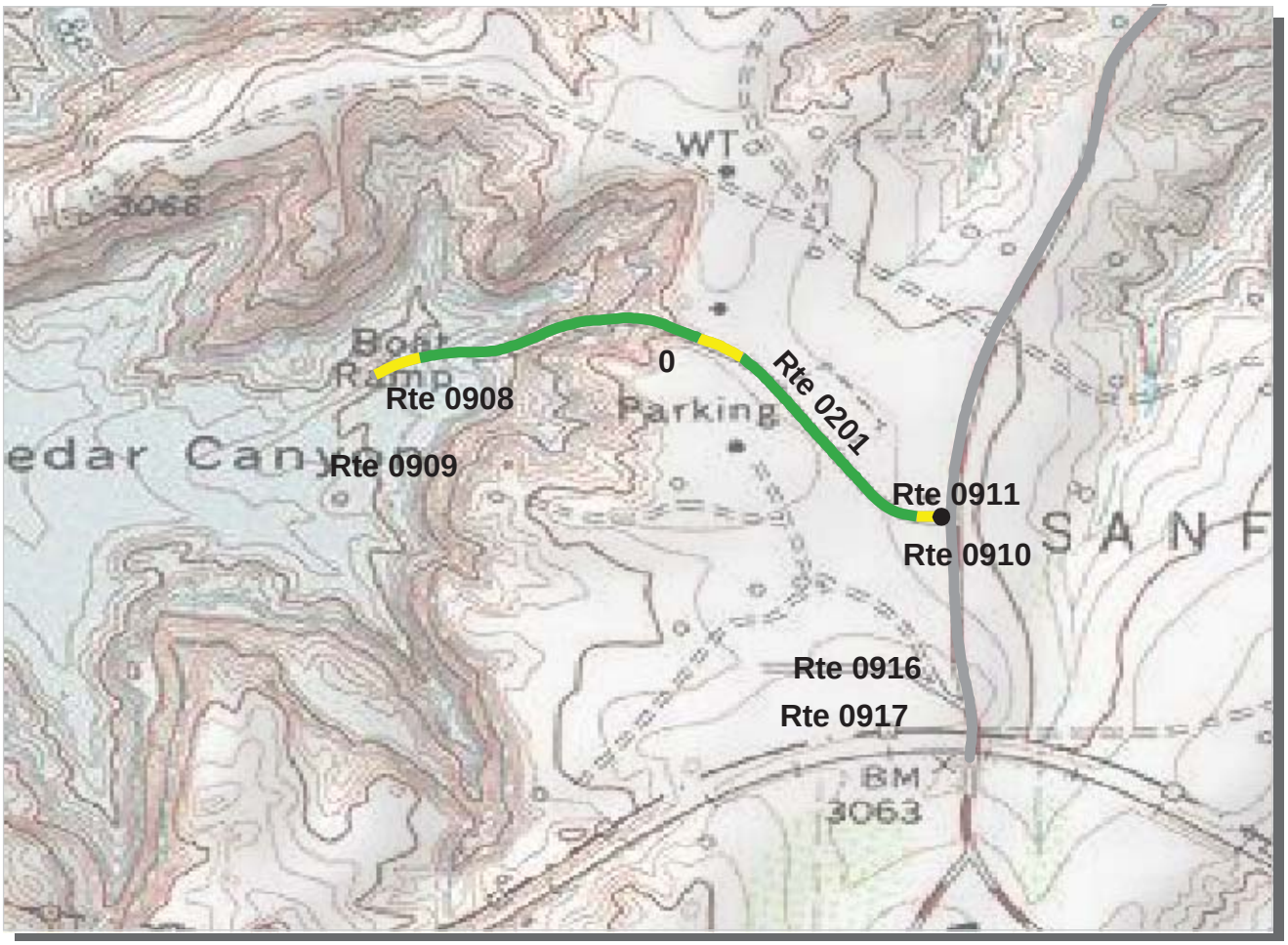
ROUTE: 0200 FRITCH AMPHITHEATER ROAD **TOTAL LENGTH: 0.76 Miles**

Section Number	0				
Section Length (mi)	0.76				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	25				
Lane Width (ft)	13				
Shoulder Width (ft)	4				
Roadway Condition Information					
PCR (Pavement Condition Rating)	95				
RCI (Roughness Condition Index)	97				
SCR (Surface Condition Rating)	94				
Alligator Cracking Index	98				
Rutting Index	97				
Patching Index	99				
Tranverse Cracking Index	100				
Longitudinal Cracking Index	97				
Shoulder Condition Rating	GOOD				
Drainage Condition Rating	GOOD				

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

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

ROUTE: 0200 FRITCH AMPHITHEATER ROAD



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.

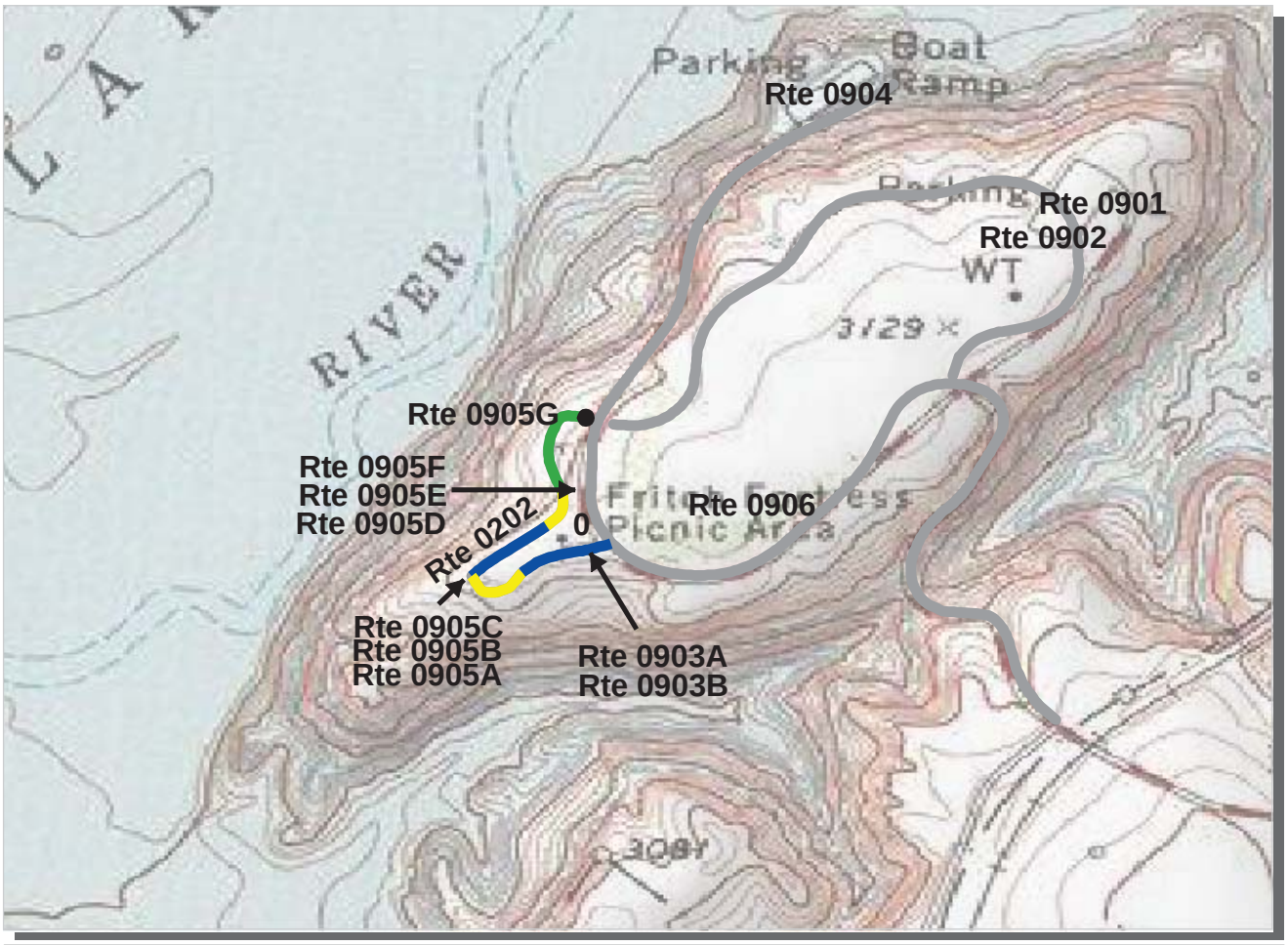
Intermountain Region
LAMR : Lake Meredith National Recreation Area

ROUTE: 0201 CEDAR CANYON ACCESS ROAD **TOTAL LENGTH: 0.58 Miles**

Section Number	0				
Section Length (mi)	0.58				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	24				
Lane Width (ft)	13				
Shoulder Width (ft)	6				
Roadway Condition Information					
PCR (Pavement Condition Rating)	86				
RCI (Roughness Condition Index)	83				
SCR (Surface Condition Rating)	88				
Alligator Cracking Index	100				
Rutting Index	96				
Patching Index	100				
Tranverse Cracking Index	92				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	GOOD				
Drainage Condition Rating	GOOD				

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

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



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.

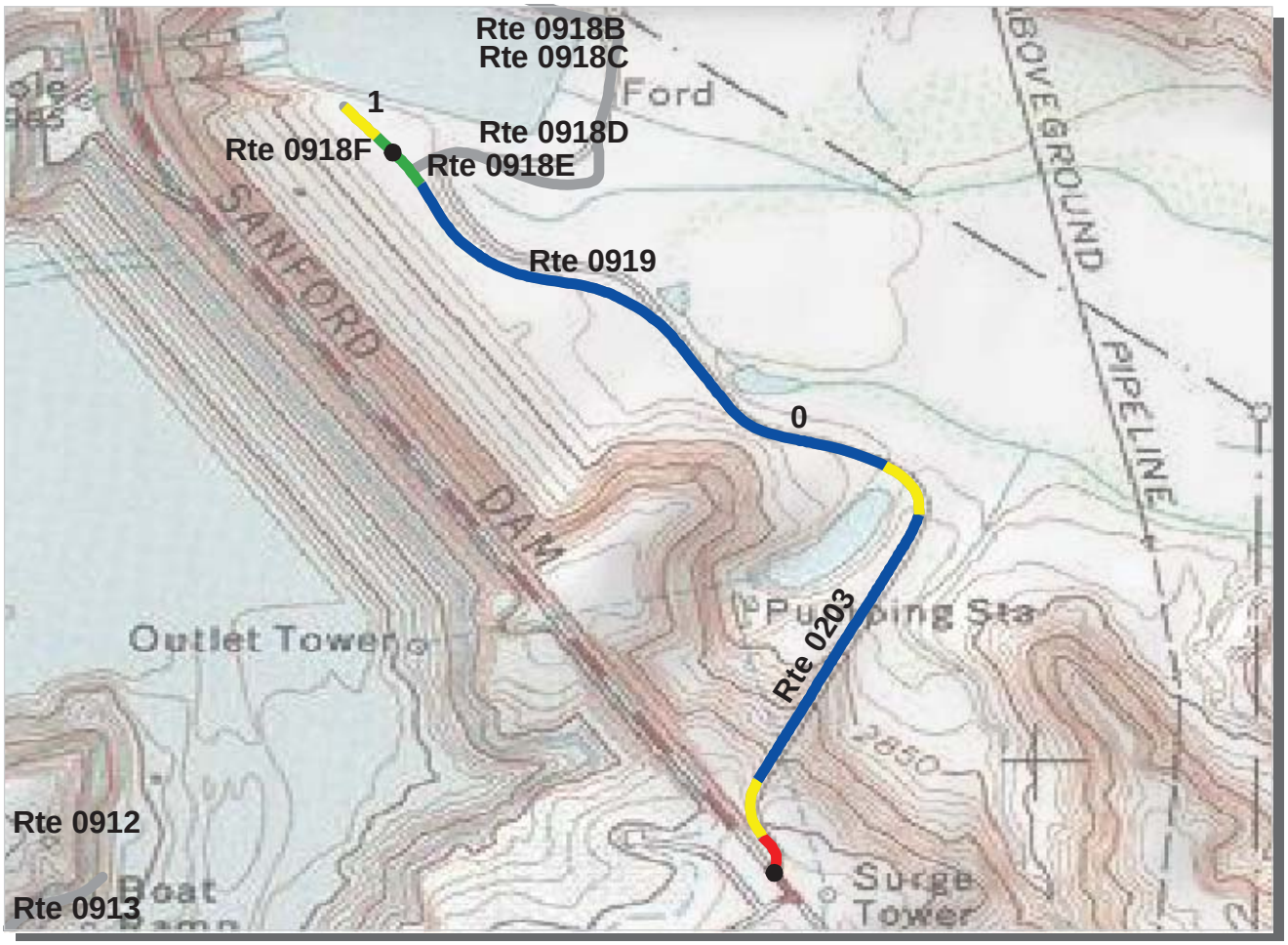
Intermountain Region
LAMR : Lake Meredith National Recreation Area

ROUTE: 0202 FRITCH PICNIC ROAD **TOTAL LENGTH: 0.37 Miles**

Section Number	0				
Section Length (mi)	0.37				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	15				
Lane Width (ft)	15				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	88				
RCI (Roughness Condition Index)	85				
SCR (Surface Condition Rating)	89				
Alligator Cracking Index	100				
Rutting Index	90				
Patching Index	100				
Tranverse Cracking Index	99				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

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

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



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

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

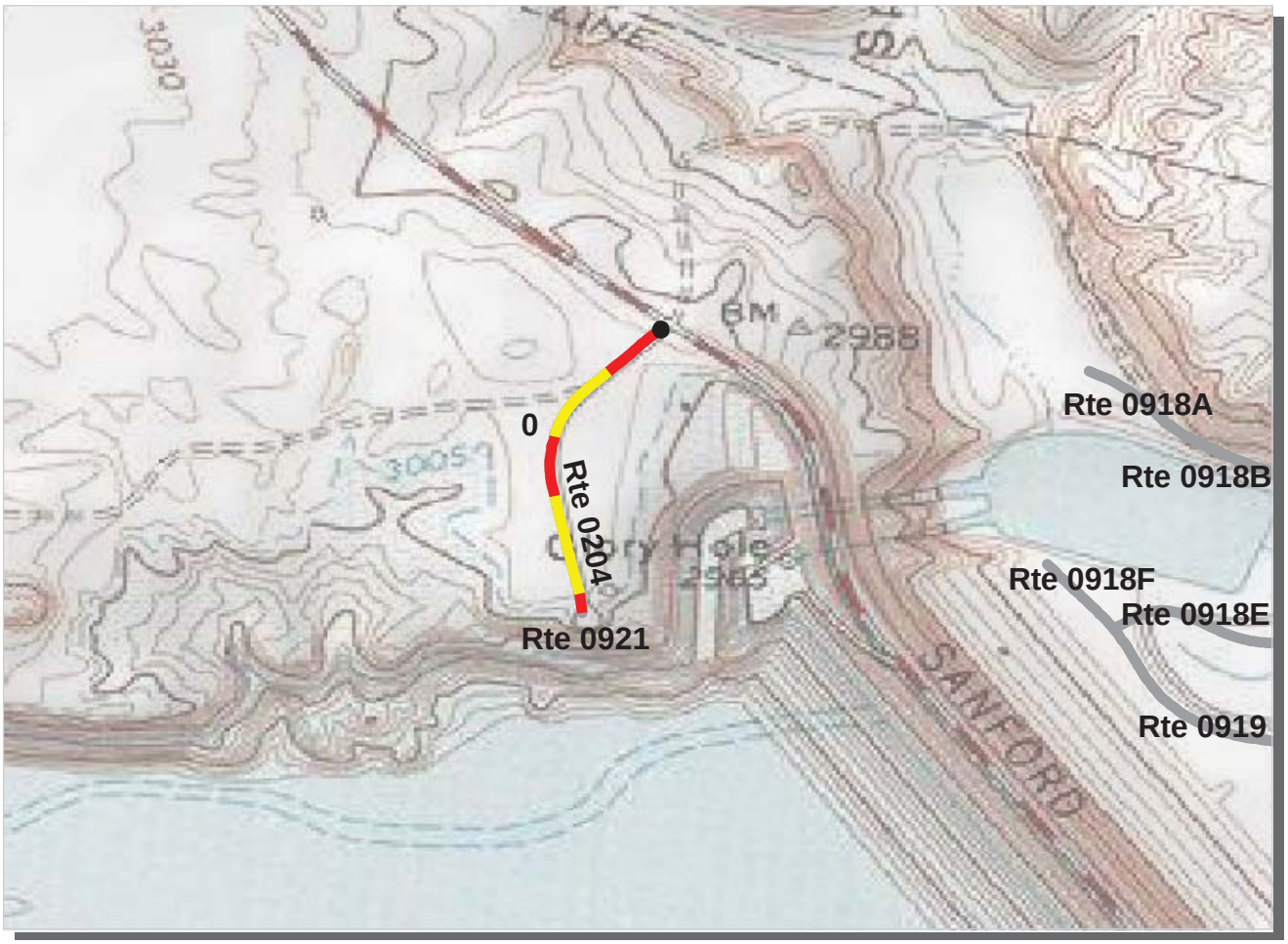
Intermountain Region
LAMR : Lake Meredith National Recreation Area

ROUTE: 0203 STILLING BASIN ROAD **TOTAL LENGTH: 1.07 Miles**

Section Number	0				
Section Length (mi)	1.00				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	22				
Lane Width (ft)	11				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	94				
RCI (Roughness Condition Index)	95				
SCR (Surface Condition Rating)	95				
Alligator Cracking Index	99				
Rutting Index	96				
Patching Index	100				
Tranverse Cracking Index	99				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

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

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



PCR Poor (<=60) Fair (61 - 84) Good (85 - 94) Excellent (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
LAMR : Lake Meredith National Recreation Area

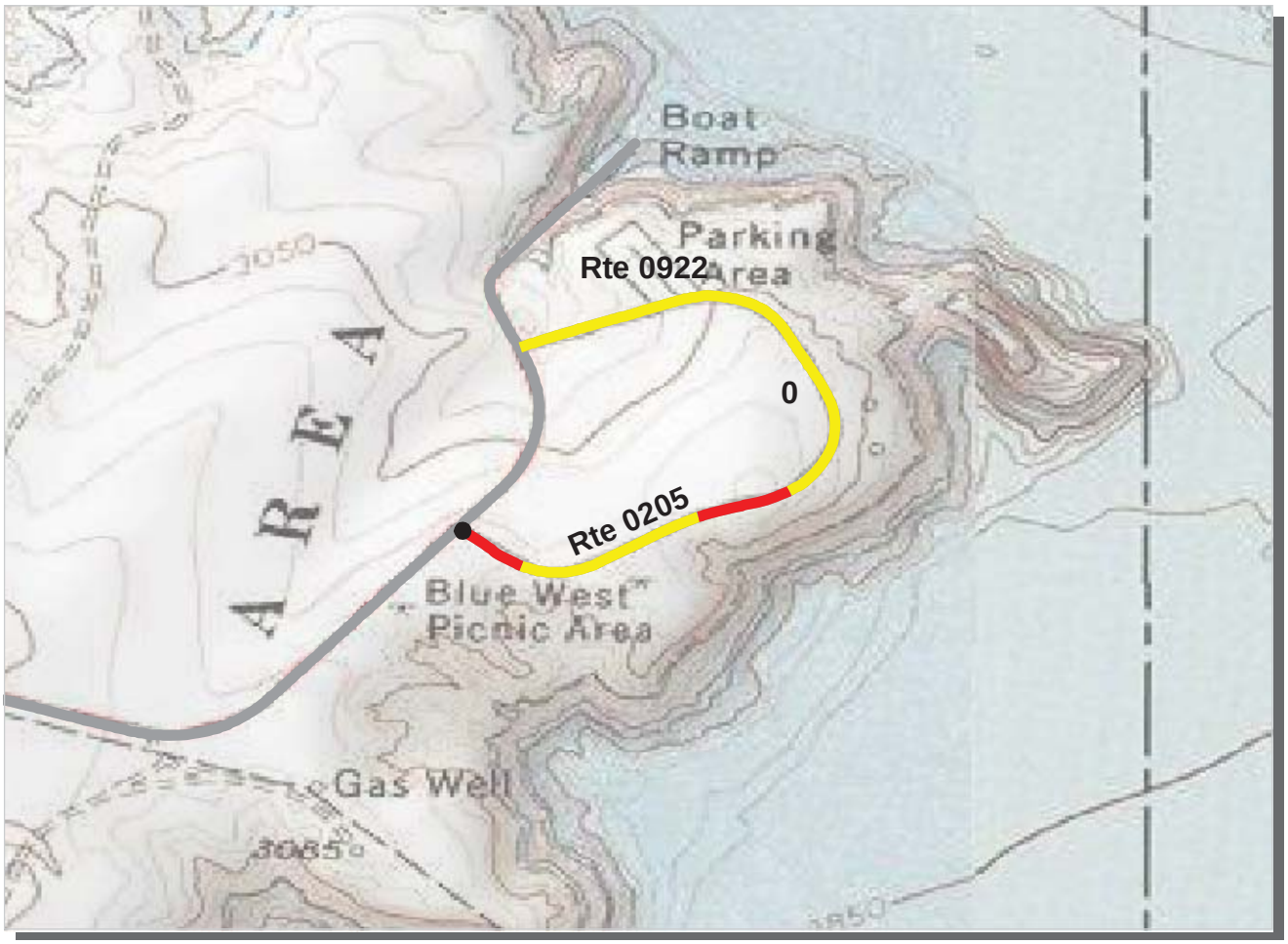
ROUTE: 0204 NORTH VIEW POINT ROAD **TOTAL LENGTH: 0.33 Miles**

Section Number	0				
Section Length (mi)	0.33				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	22				
Lane Width (ft)	11				
Shoulder Width (ft)	7				
Roadway Condition Information					
PCR (Pavement Condition Rating)	55				
RCI (Roughness Condition Index)	79				
SCR (Surface Condition Rating)	45				
Alligator Cracking Index	98				
Rutting Index	71				
Patching Index	99				
Tranverse Cracking Index	90				
Longitudinal Cracking Index	84				
Shoulder Condition Rating	GOOD				
Drainage Condition Rating	GOOD				

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

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

ROUTE: 0204 NORTH VIEW POINT ROAD



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.

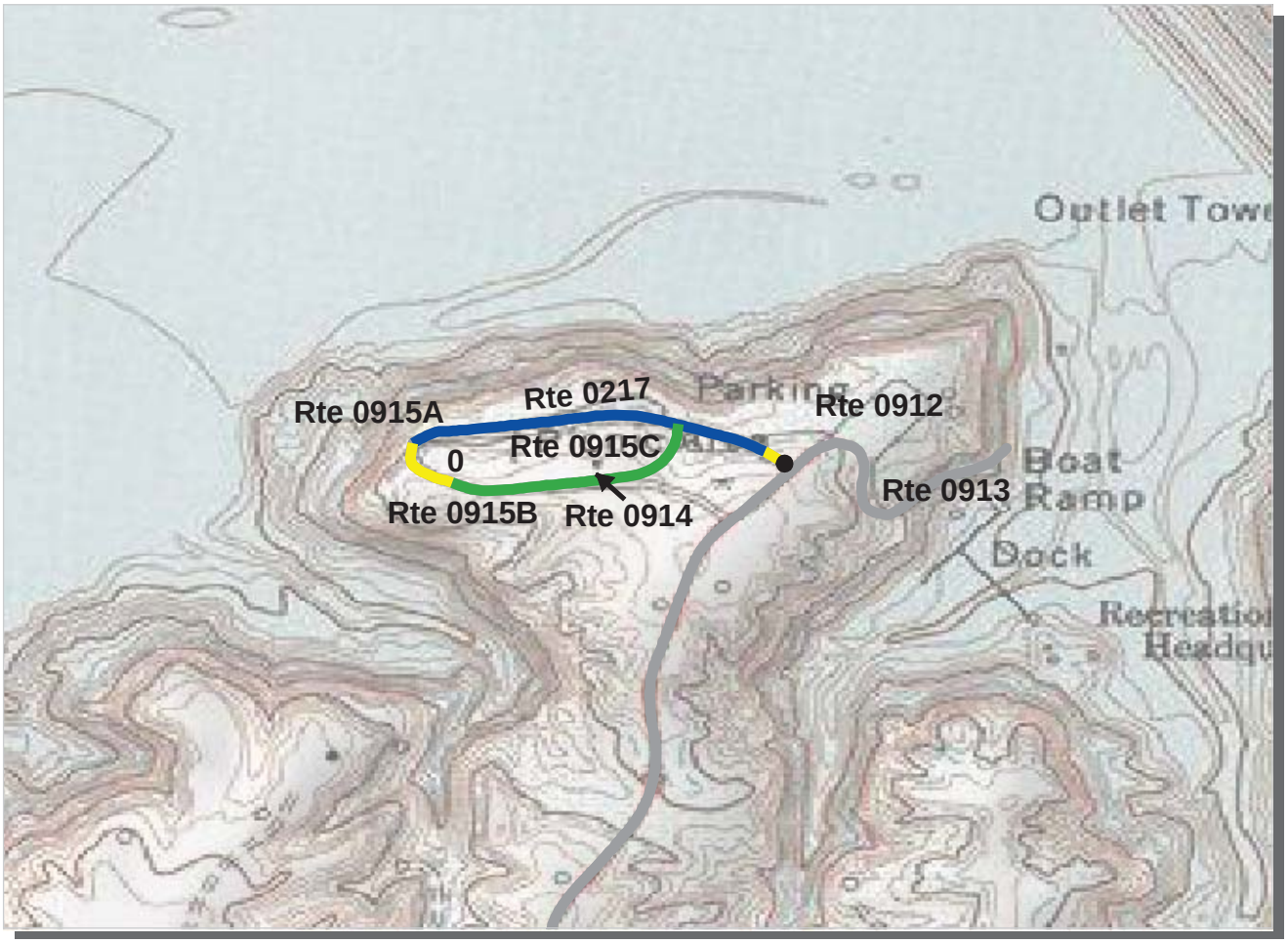
Intermountain Region
LAMR : Lake Meredith National Recreation Area

ROUTE: 0205 BLUE WEST PICNIC ROAD **TOTAL LENGTH: 0.73 Miles**

Section Number	0				
Section Length (mi)	0.73				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	23				
Lane Width (ft)	11				
Shoulder Width (ft)	4				
Roadway Condition Information					
PCR (Pavement Condition Rating)	65				
RCI (Roughness Condition Index)	74				
SCR (Surface Condition Rating)	60				
Alligator Cracking Index	100				
Rutting Index	60				
Patching Index	100				
Tranverse Cracking Index	99				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	GOOD				
Drainage Condition Rating	GOOD				

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

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



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

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

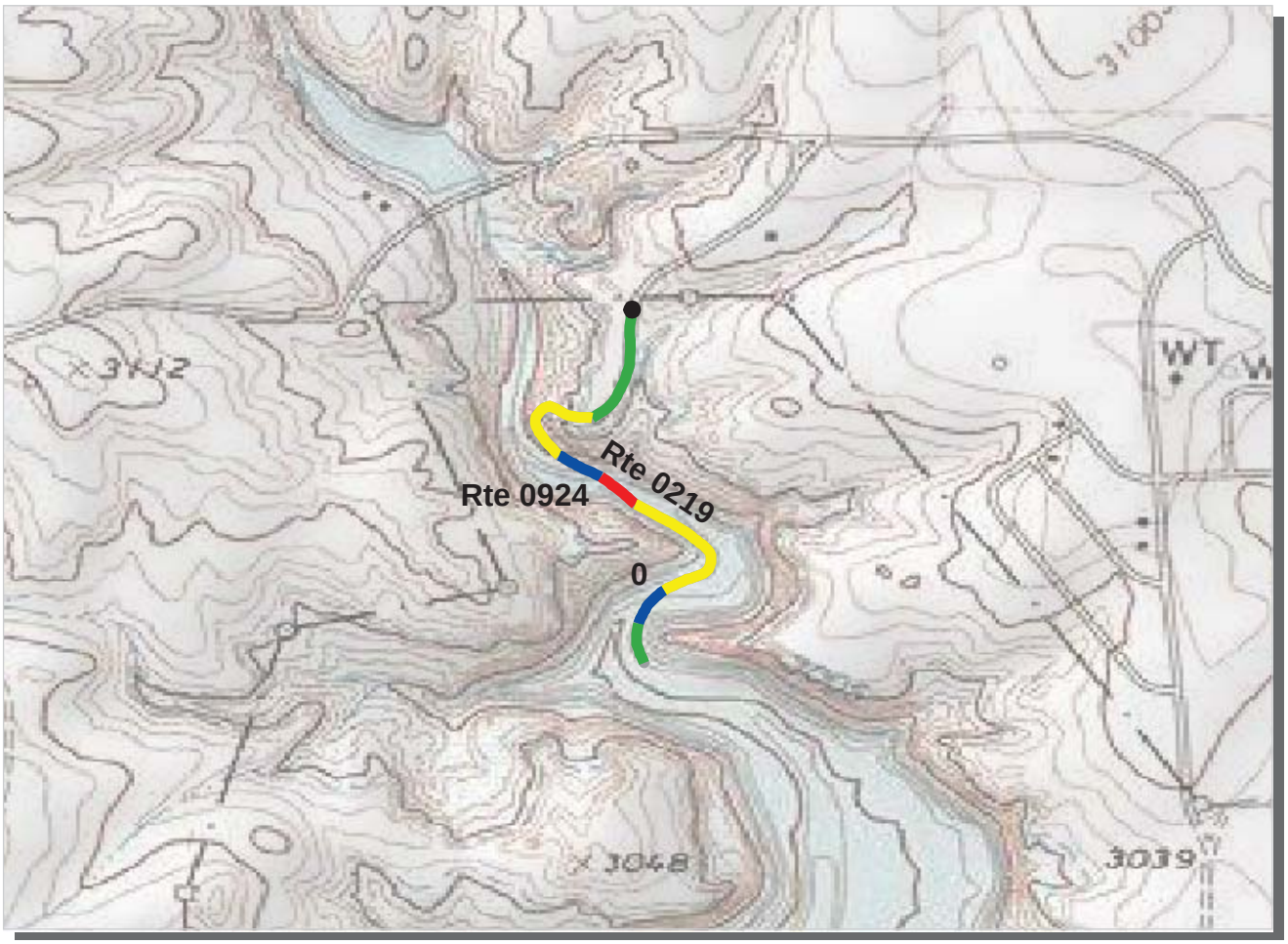
Intermountain Region
LAMR : Lake Meredith National Recreation Area

ROUTE: 0217 SANFORD YAKE CAMPGROUND LOOP **TOTAL LENGTH: 0.61 Miles**

Section Number	0				
Section Length (mi)	0.61				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	22				
Lane Width (ft)	11				
Shoulder Width (ft)	5				
Roadway Condition Information					
PCR (Pavement Condition Rating)	91				
RCI (Roughness Condition Index)	93				
SCR (Surface Condition Rating)	90				
Alligator Cracking Index	99				
Rutting Index	94				
Patching Index	100				
Tranverse Cracking Index	97				
Longitudinal Cracking Index	98				
Shoulder Condition Rating	GOOD				
Drainage Condition Rating	GOOD				

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

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



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

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

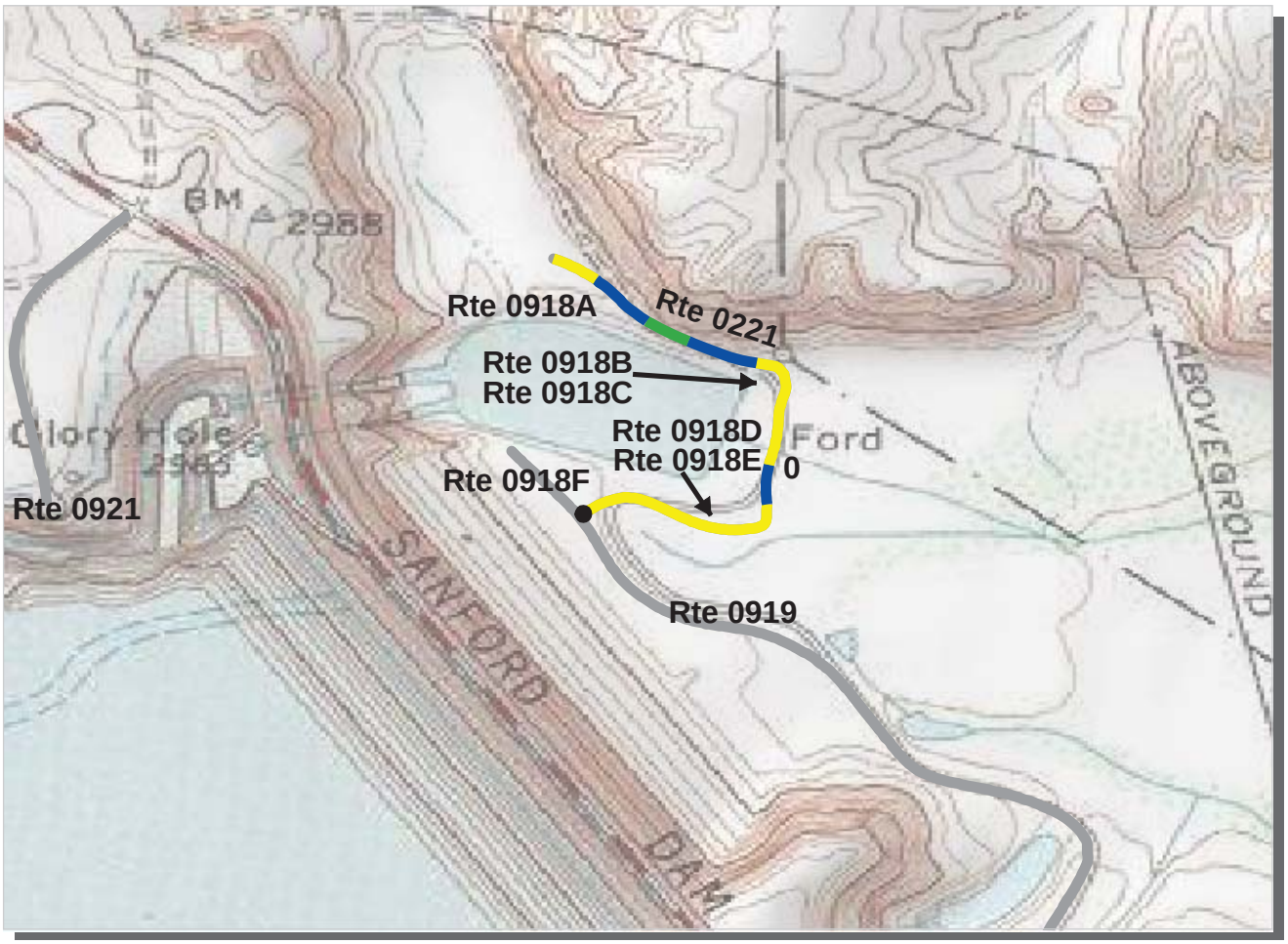
Intermountain Region
LAMR : Lake Meredith National Recreation Area

ROUTE: 0219 BUGBEE ACCESS ROAD **TOTAL LENGTH: 0.53 Miles**

Section Number	0				
Section Length (mi)	0.53				
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)	79				
RCI (Roughness Condition Index)	77				
SCR (Surface Condition Rating)	79				
Alligator Cracking Index	100				
Rutting Index	83				
Patching Index	99				
Tranverse Cracking Index	98				
Longitudinal Cracking Index	98				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

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

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



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

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

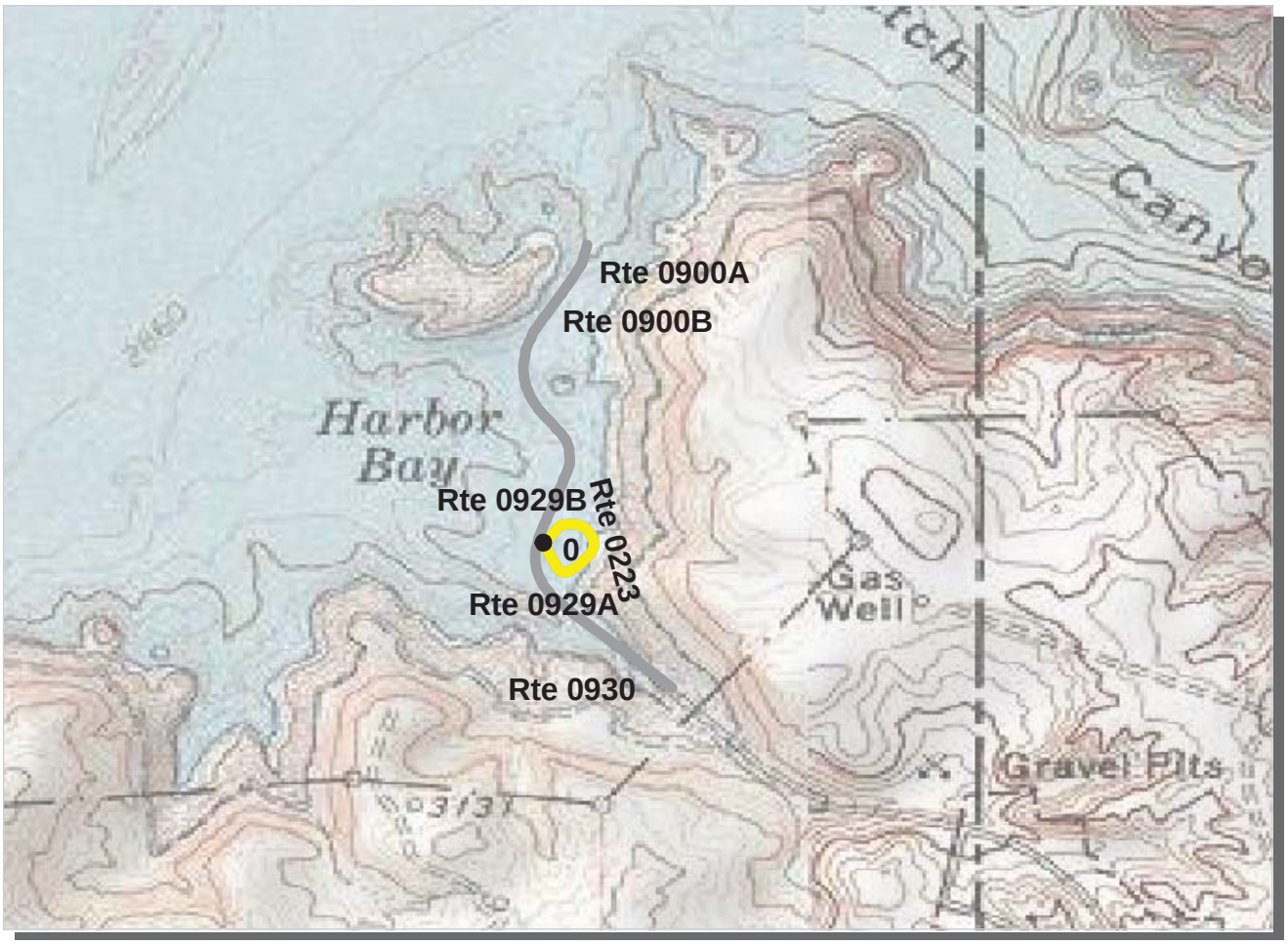
Intermountain Region
LAMR : Lake Meredith National Recreation Area

ROUTE: 0221 SPRING CANYON ROAD **TOTAL LENGTH: 0.55 Miles**

Section Number	0				
Section Length (mi)	0.55				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	22				
Lane Width (ft)	10				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	80				
RCI (Roughness Condition Index)	67				
SCR (Surface Condition Rating)	86				
Alligator Cracking Index	100				
Rutting Index	86				
Patching Index	100				
Tranverse Cracking Index	99				
Longitudinal Cracking Index	100				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

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

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



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
LAMR : Lake Meredith National Recreation Area

ROUTE: 0223 HARBOR BAY PICNIC ROAD **TOTAL LENGTH: 0.16 Miles**

Section Number	0				
Section Length (mi)	0.16				
AADT	**				
SADT	**				
ADT Date	**				
Cross Section Information					
Number of Lanes	1				
Paved Width (ft)	21				
Lane Width (ft)	21				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	67				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	67				
Alligator Cracking Index	100				
Rutting Index	78				
Patching Index	100				
Tranverse Cracking Index	93				
Longitudinal Cracking Index	95				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

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

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

ROUTE: 0223 HARBOR BAY PICNIC ROAD

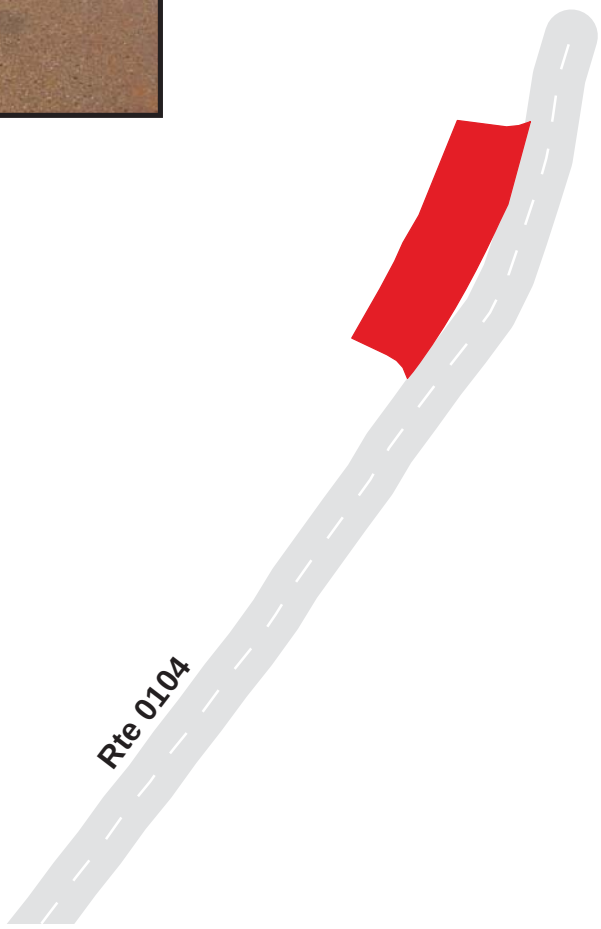
LAMR: Manually Rated Paved Route Condition Rating Sheets

No data available for this section

Lake Meredith National Recreation Area
Route 0900A
HARBOR BAY PARKING A
From Route 0104

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0900A	Public	3/10/2003	3055	0.05	AS	GOOD / 90

* Lane miles are based on 11' lane widths



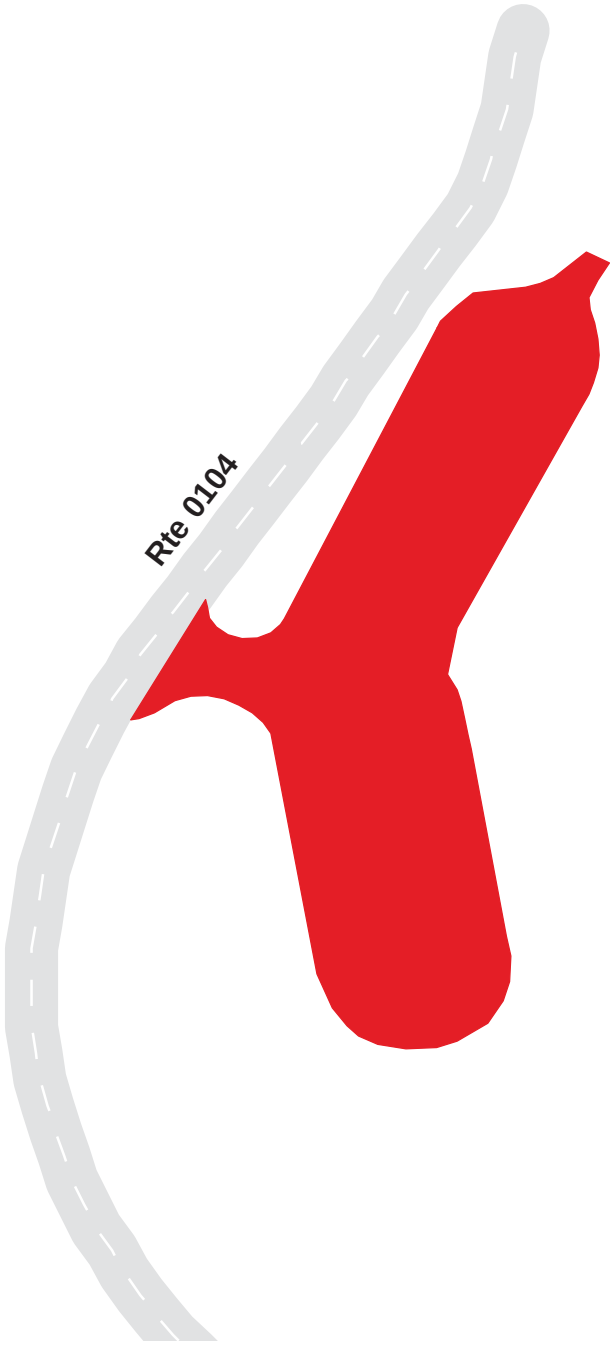
100 50 0 100
Feet

N

Lake Meredith National Recreation Area
Route 0900B
HARBOR BAY PARKING B
From Route 0104

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0900B	Public	3/10/2003	57247	0.99	AS	FAIR / 73

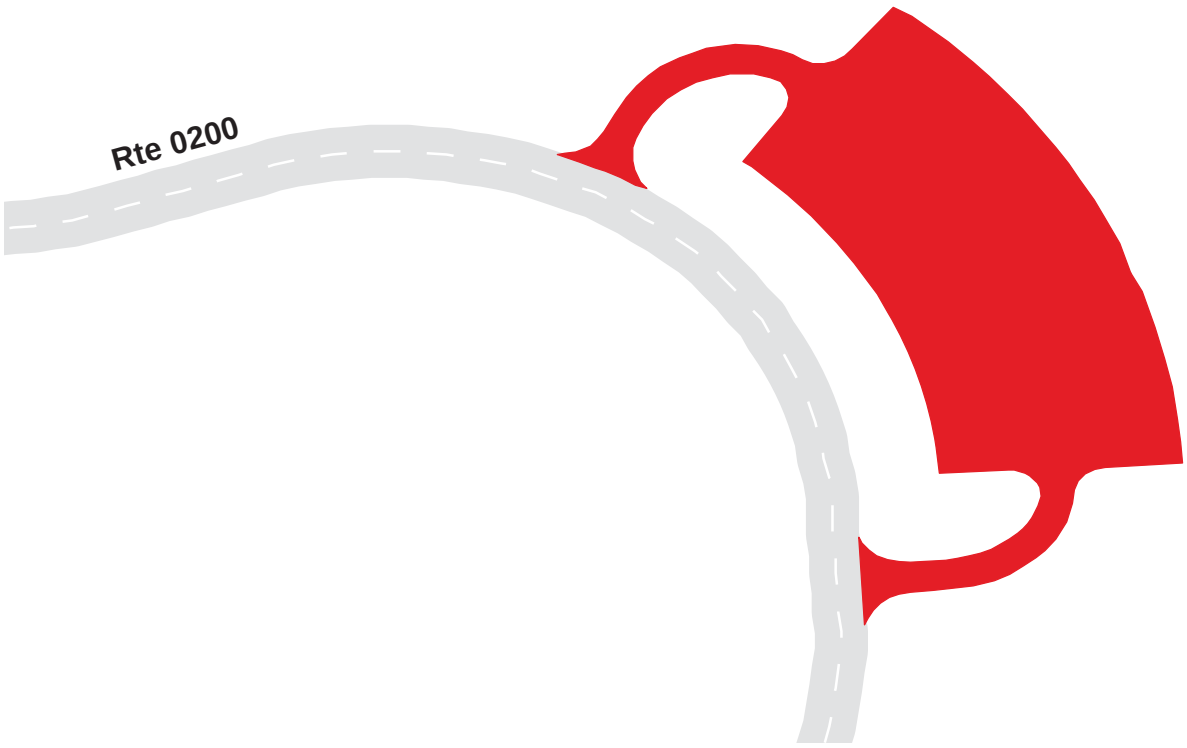
* Lane miles are based on 11' lane widths



Lake Meredith National Recreation Area
Route 0901
AMPHITHEATER PARKING
From Route 0200

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0901	Public	3/10/2003	94140	1.62	AS	GOOD / 90

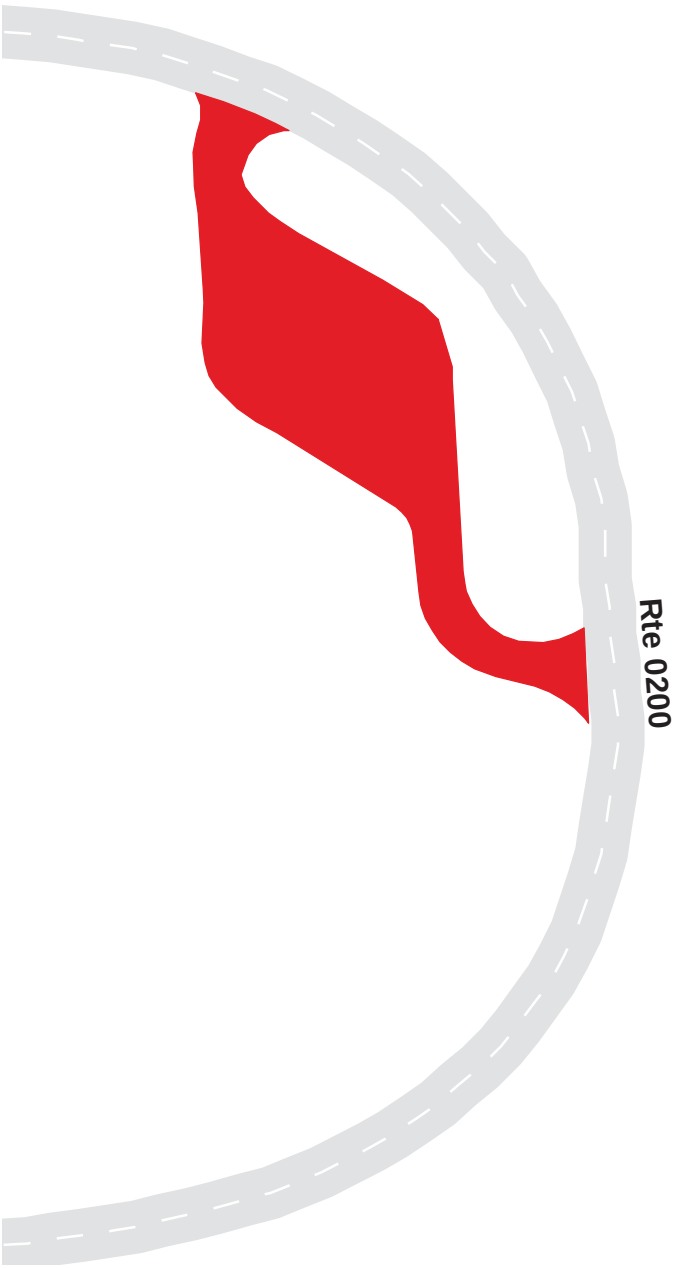
* Lane miles are based on 11' lane widths



Lake Meredith National Recreation Area
Route 0902
AMPHITHEATER OVERFLOW PARKING
From Route 0200

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0902	Public	3/10/2003	25528	0.44	AS	GOOD / 90

* Lane miles are based on 11' lane widths



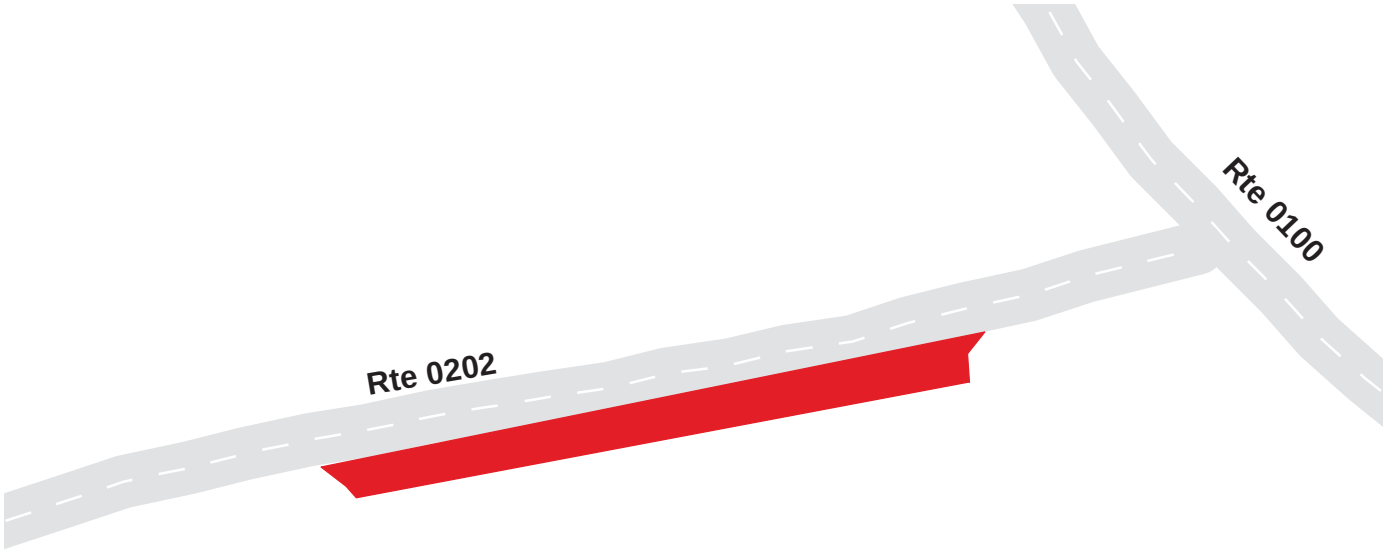
150 75 0 150
Feet

N

Lake Meredith National Recreation Area
Route 0903A
COMFORT STATION PARKING
From Route 0202

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0903A	Public	3/9/2003	1929	0.03	AS	FAIR / 73

* Lane miles are based on 11' lane widths



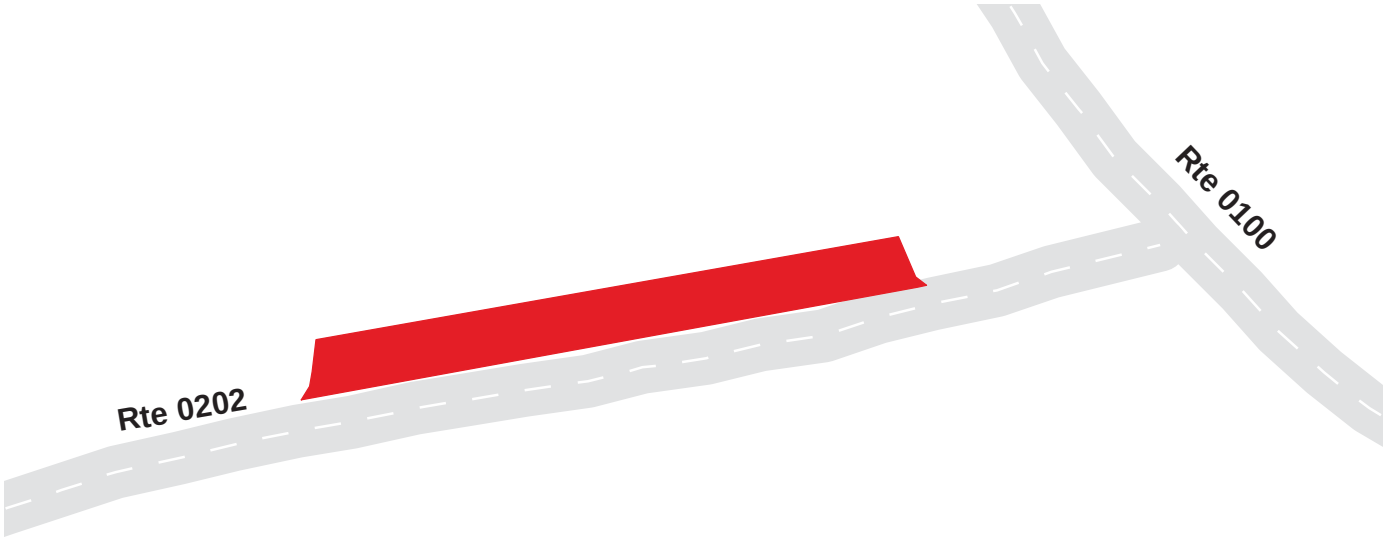
50 25 0 50
Feet

N

Lake Meredith National Recreation Area
Route 0903B
COMFORT STATION PARKING
From Route 0202

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0903B	Public	3/9/2003	2531	0.04	AS	FAIR / 73

* Lane miles are based on 11' lane widths



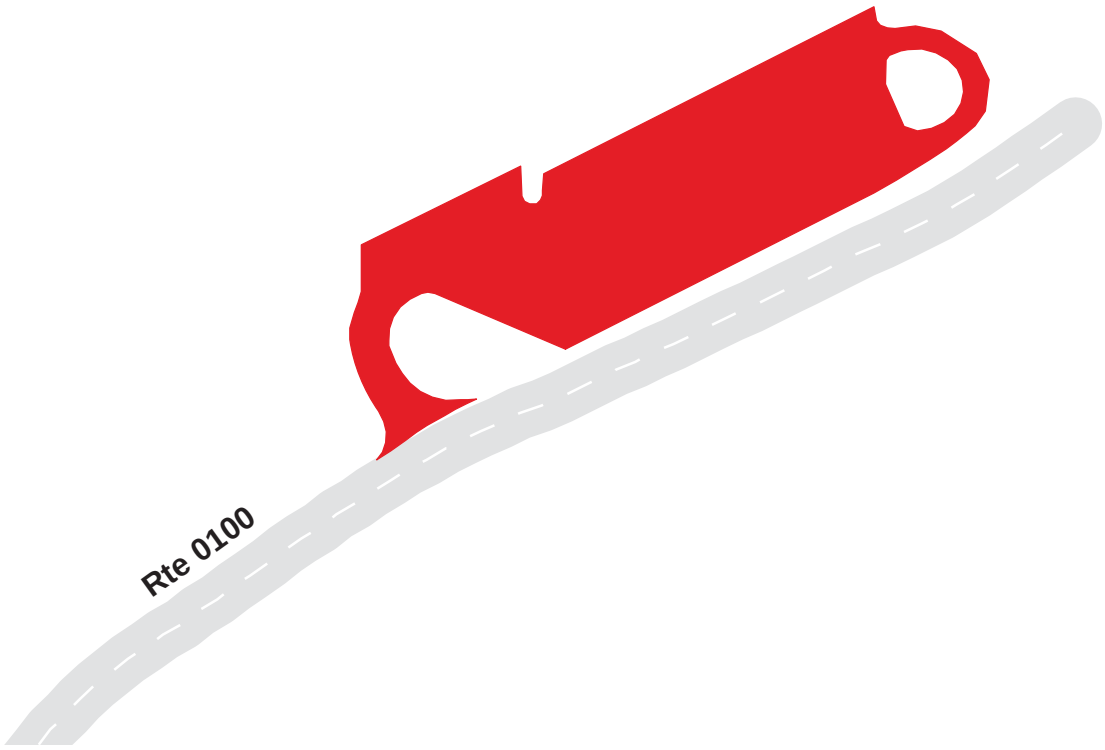
50 25 0 50 Feet

N

Lake Meredith National Recreation Area
Route 0904
FRITCH FORTRESS PARKING
From Route 0100

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0904	Public	3/9/2003	58597	1.01	AS	GOOD / 90

* Lane miles are based on 11' lane widths



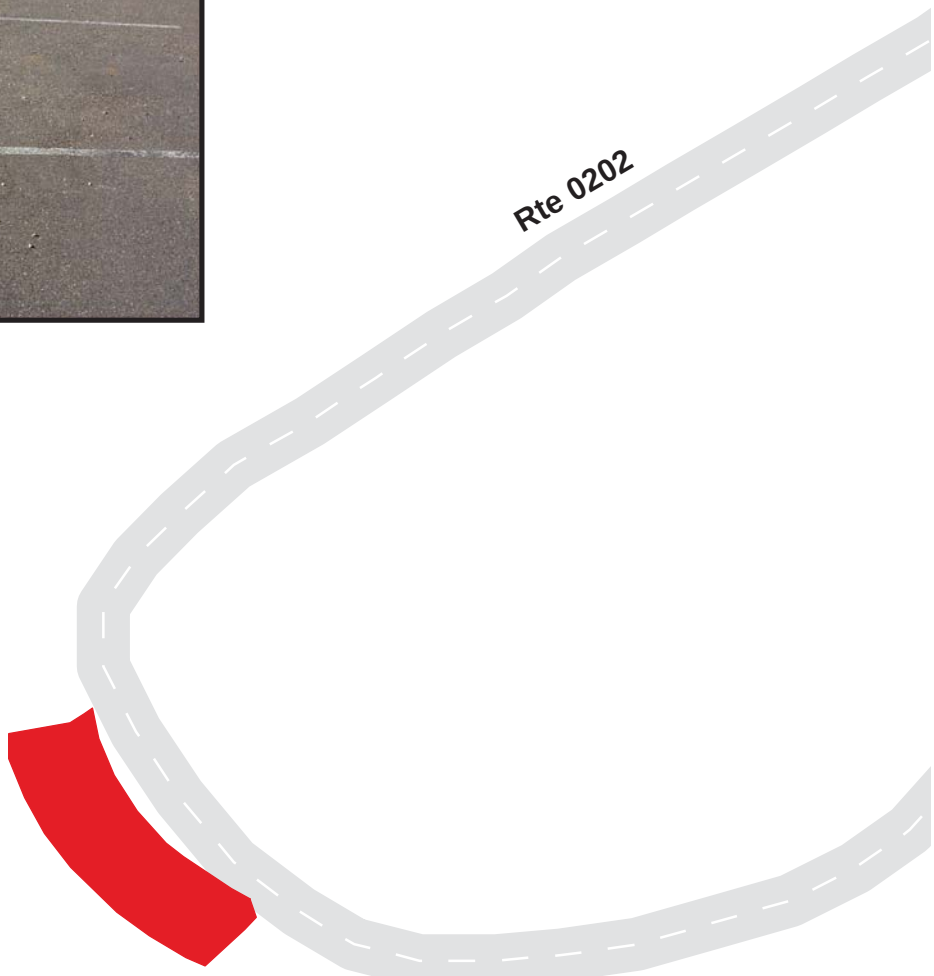
150 75 0 150
Feet

N

Lake Meredith National Recreation Area
Route 0905A
FRITCH PICNIC PARKING
From Route 0202

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0905A	Public	3/9/2003	1339	0.02	AS	GOOD / 90

* Lane miles are based on 11' lane widths



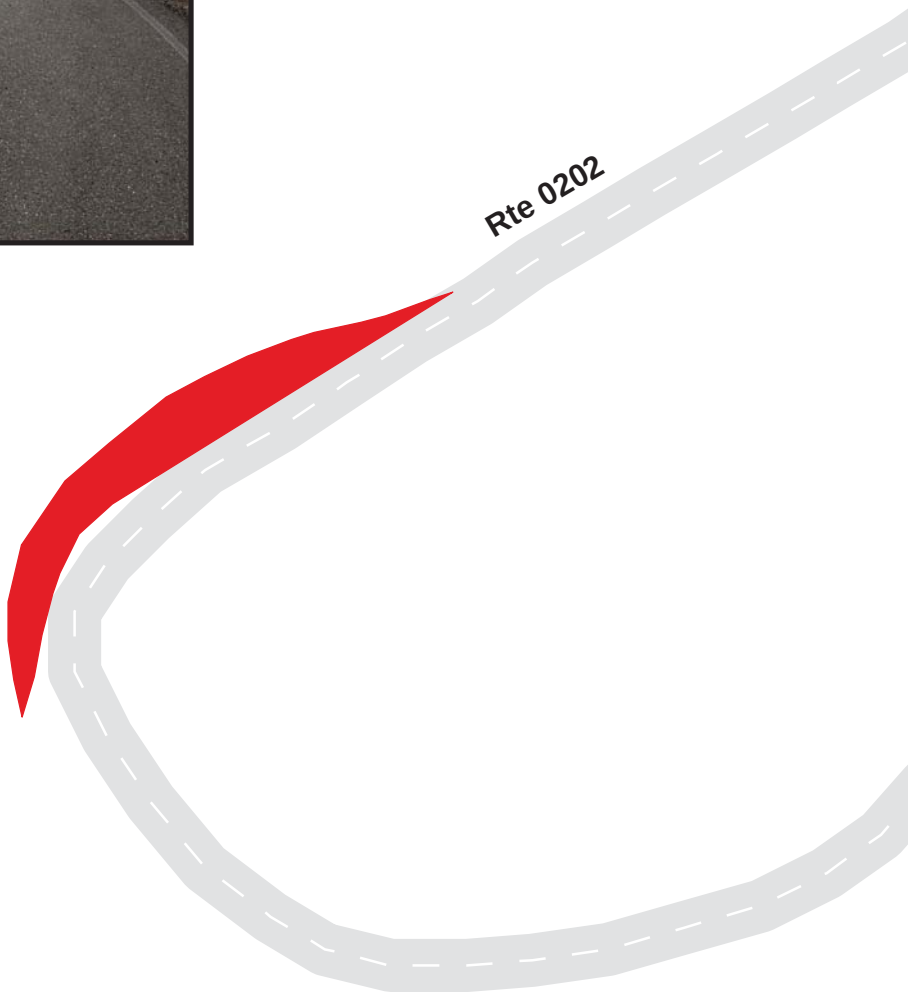
50 25 0 50
Feet

N

Lake Meredith National Recreation Area
Route 0905B
FRITCH PICNIC PARKING
From Route 0202

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0905B	Public	3/9/2003	1367	0.02	AS	GOOD / 90

* Lane miles are based on 11' lane widths



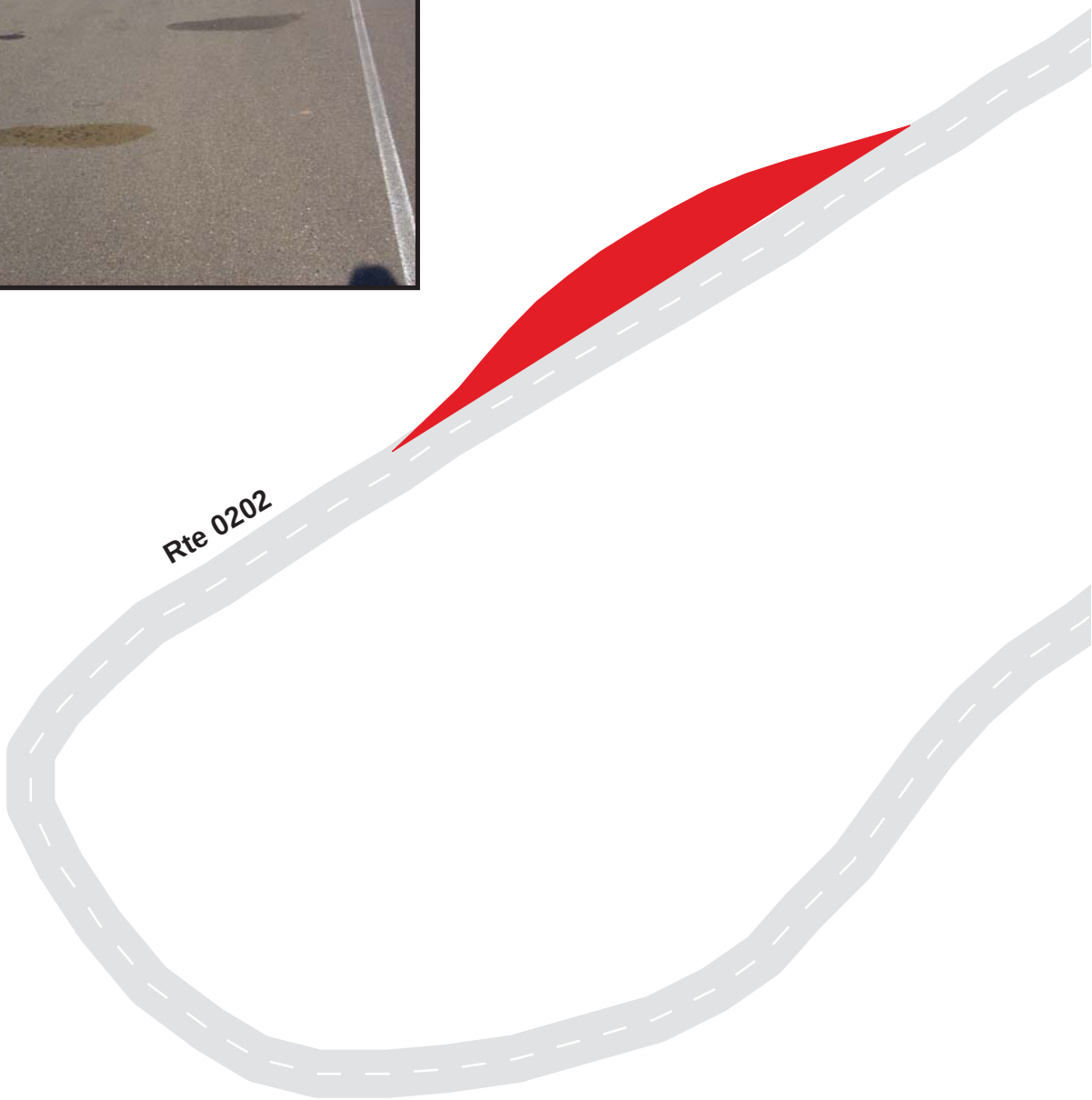
50 25 0 50
Feet

N

Lake Meredith National Recreation Area
Route 0905C
FRITCH PICNIC PARKING
From Route 0202

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0905C	Public	3/9/2003	1421	0.02	AS	GOOD / 90

* Lane miles are based on 11' lane widths



50 25 0 50
Feet

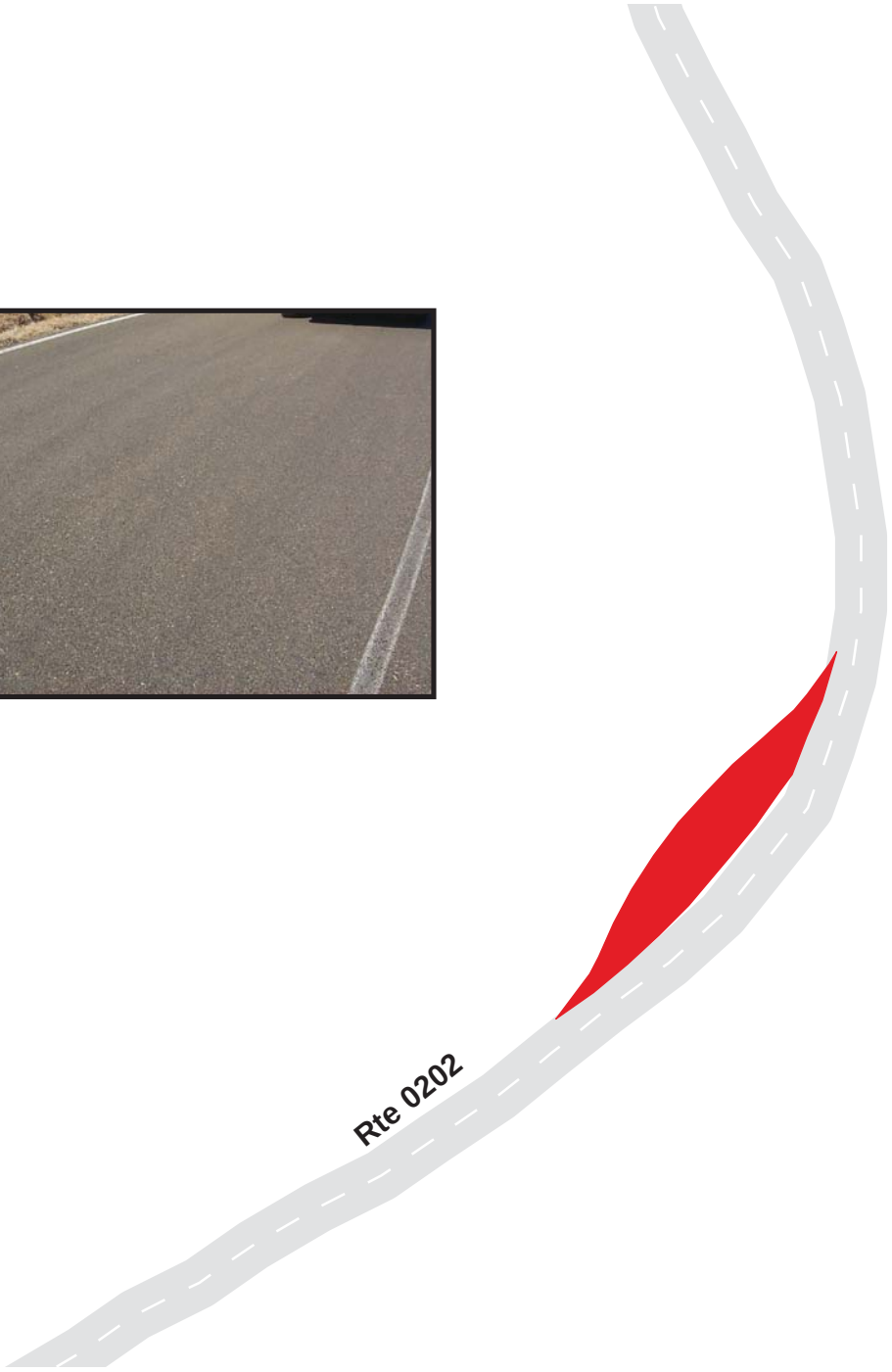
N

7-10

Lake Meredith National Recreation Area
Route 0905D
FRITCH PICNIC PARKING
From Route 0202

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0905D	Public	3/9/2003	956	0.02	AS	GOOD / 90

* Lane miles are based on 11' lane widths



50 25 0 50
Feet

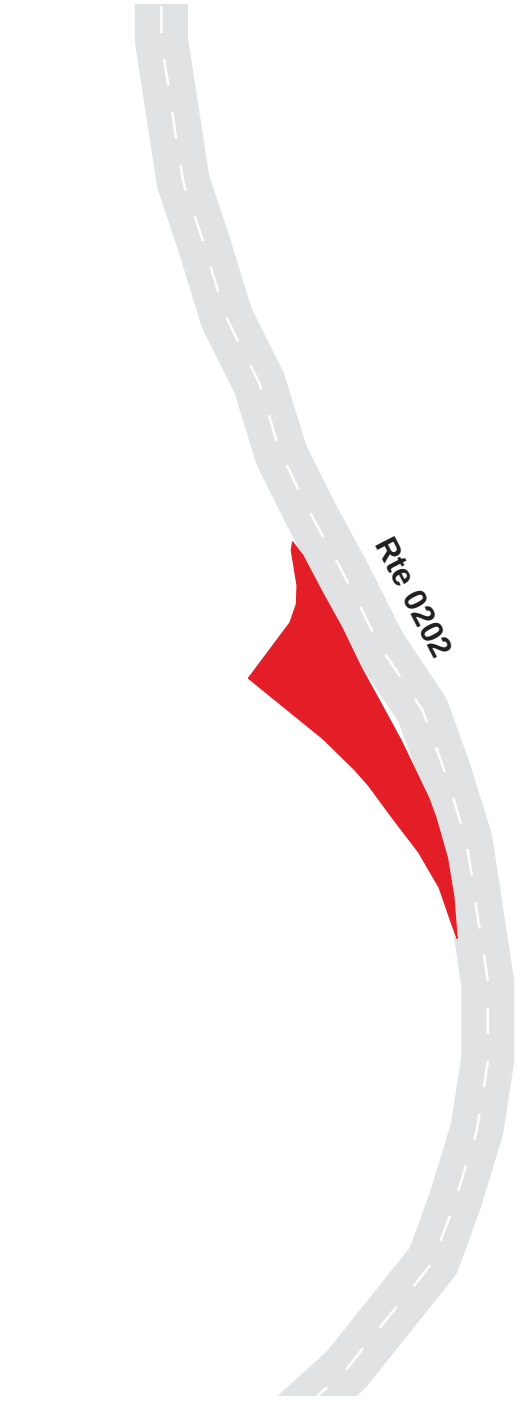
N

7-11

Lake Meredith National Recreation Area
Route 0905E
FRITCH PICNIC PARKING
From Route 0202

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0905E	Public	3/9/2003	1027	0.02	AS	GOOD / 90

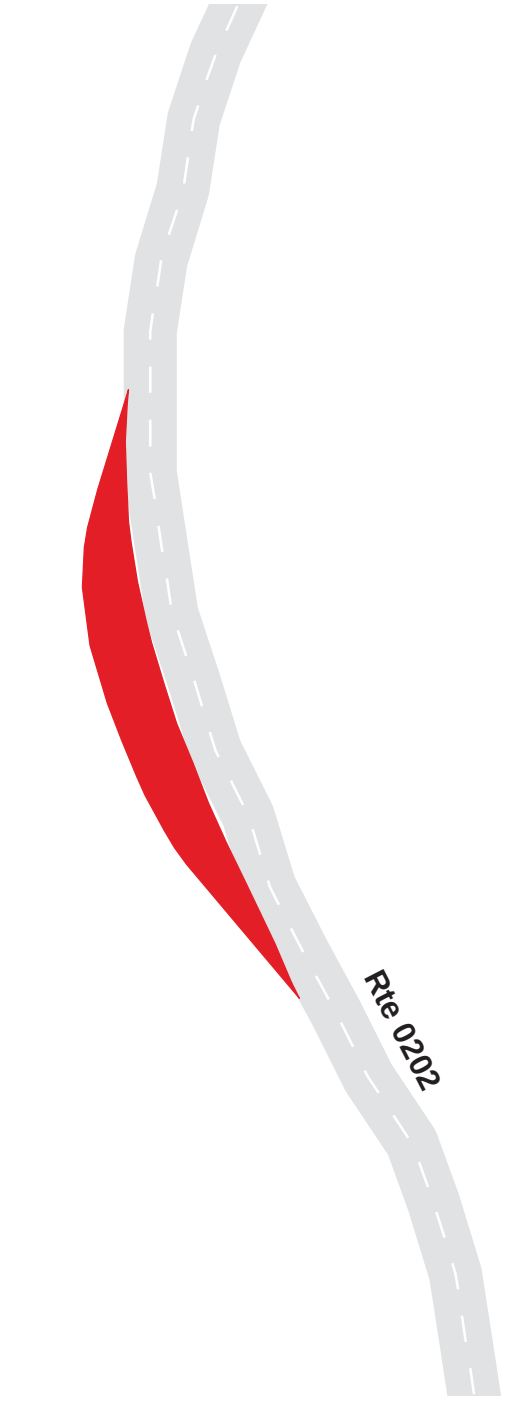
* Lane miles are based on 11' lane widths



Lake Meredith National Recreation Area
Route 0905F
FRITCH PICNIC PARKING
From Route 0202

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0905F	Public	3/9/2003	1358	0.02	AS	GOOD / 90

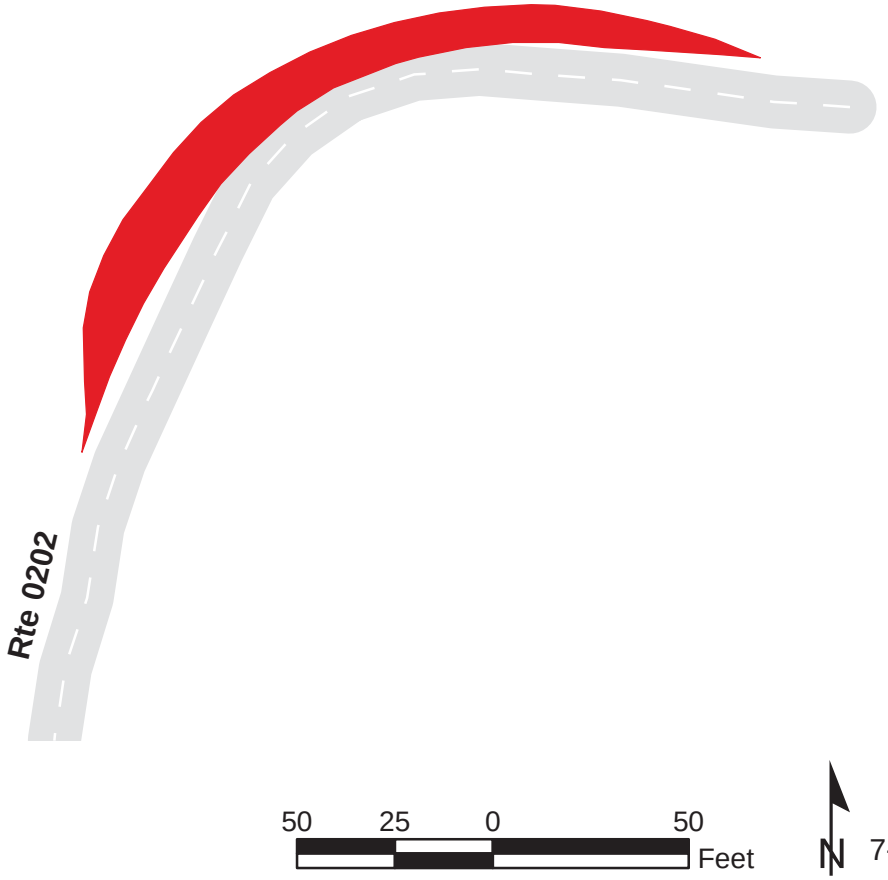
* Lane miles are based on 11' lane widths



Lake Meredith National Recreation Area
Route 0905G
FRITCH PICNIC PARKING
From Route 0202

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0905G	Public	3/9/2003	1893	0.03	AS	GOOD / 90

* Lane miles are based on 11' lane widths



Lake Meredith National Recreation Area
Route 0906
FRITCH DUMP STATION
From Route 0100

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0906	Public	3/9/2003	7912	0.14	AS	GOOD / 90

* Lane miles are based on 11' lane widths

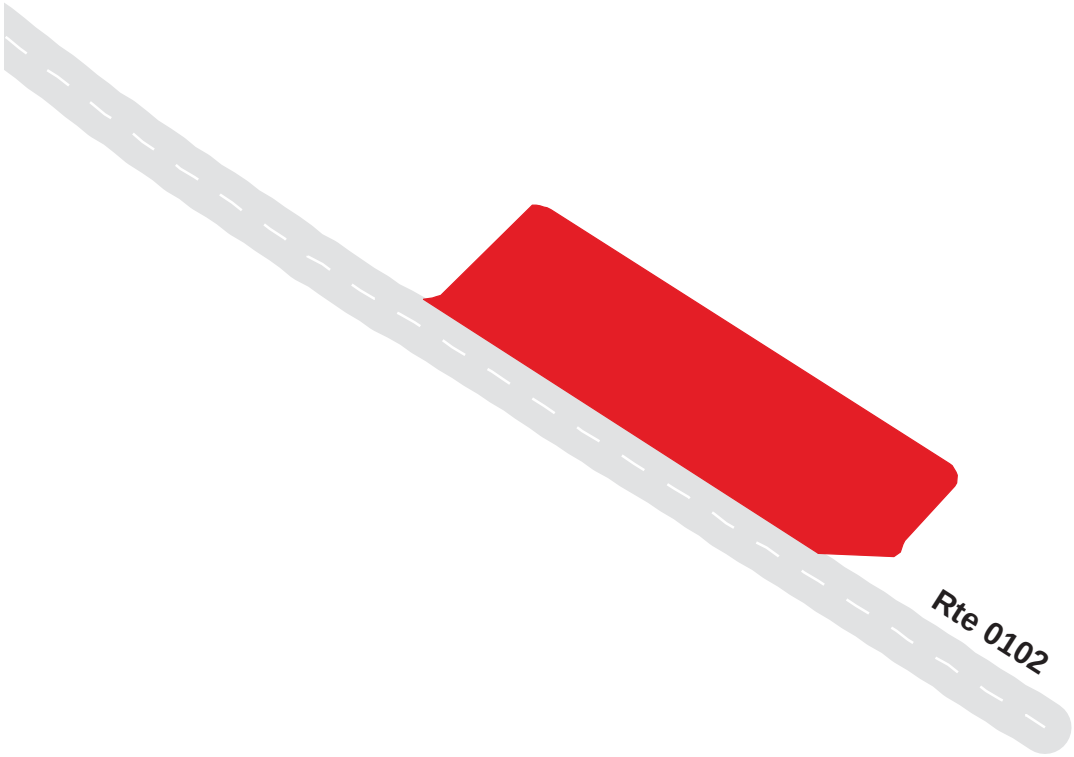
100 50 0 100
Feet

N

Lake Meredith National Recreation Area
Route 0907
PLUM CREEK PARKING
From Route 0102

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0907	Public	3/10/2003	82807	1.43	NC	GOOD / 90

* Lane miles are based on 11' lane widths



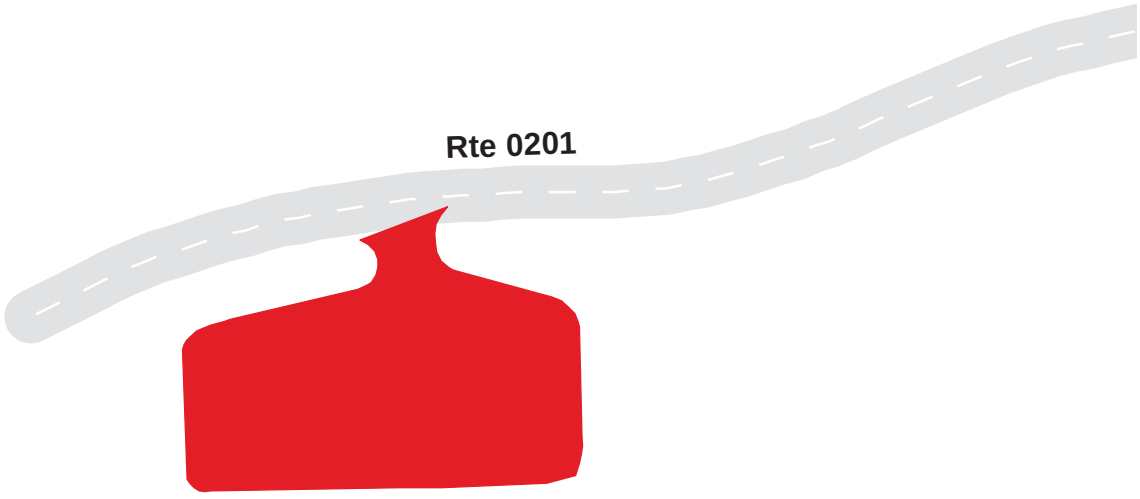
300 150 0 300
Feet

N

Lake Meredith National Recreation Area
Route 0908
CEDAR CANYON PARKING
From Route 0201

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0908	Public	3/9/2003	62404	1.07	AS	GOOD / 90

* Lane miles are based on 11' lane widths



200 100 0 200
Feet

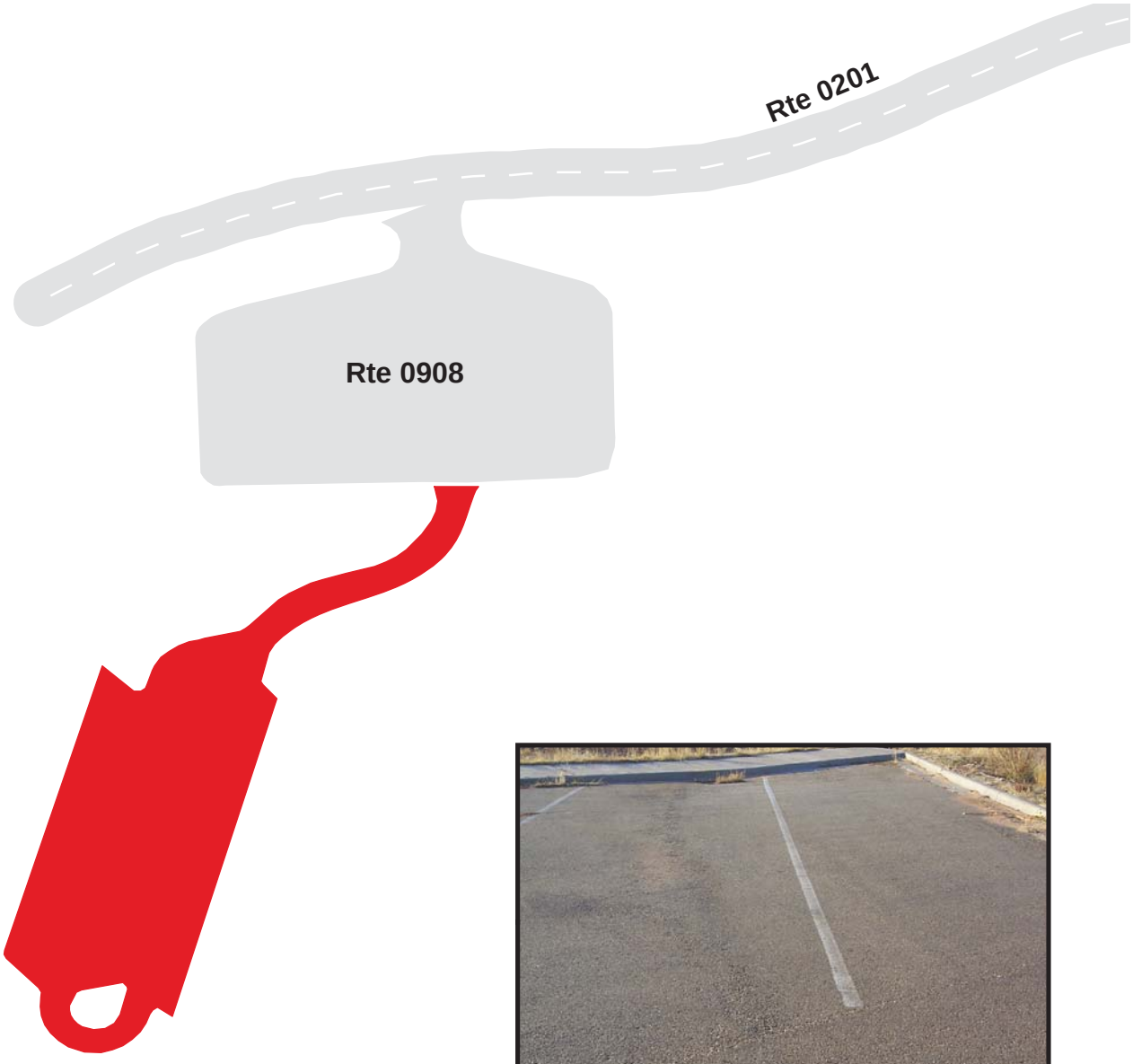
N

7-17

Lake Meredith National Recreation Area
Route 0909
CEDAR CANYON OVERFLOW PARKNG
From Route 0908

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0909	Public	3/9/2003	53049	0.91	AS	FAIR / 73

* Lane miles are based on 11' lane widths



200 100 0 200
Feet

N

Lake Meredith National Recreation Area
Route 0910
CEDAR CANYON DUMP CLEAN WATER STATION
From Route 0010

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0910	Public	3/9/2003	7997	0.14	AS	FAIR / 73

* Lane miles are based on 11' lane widths

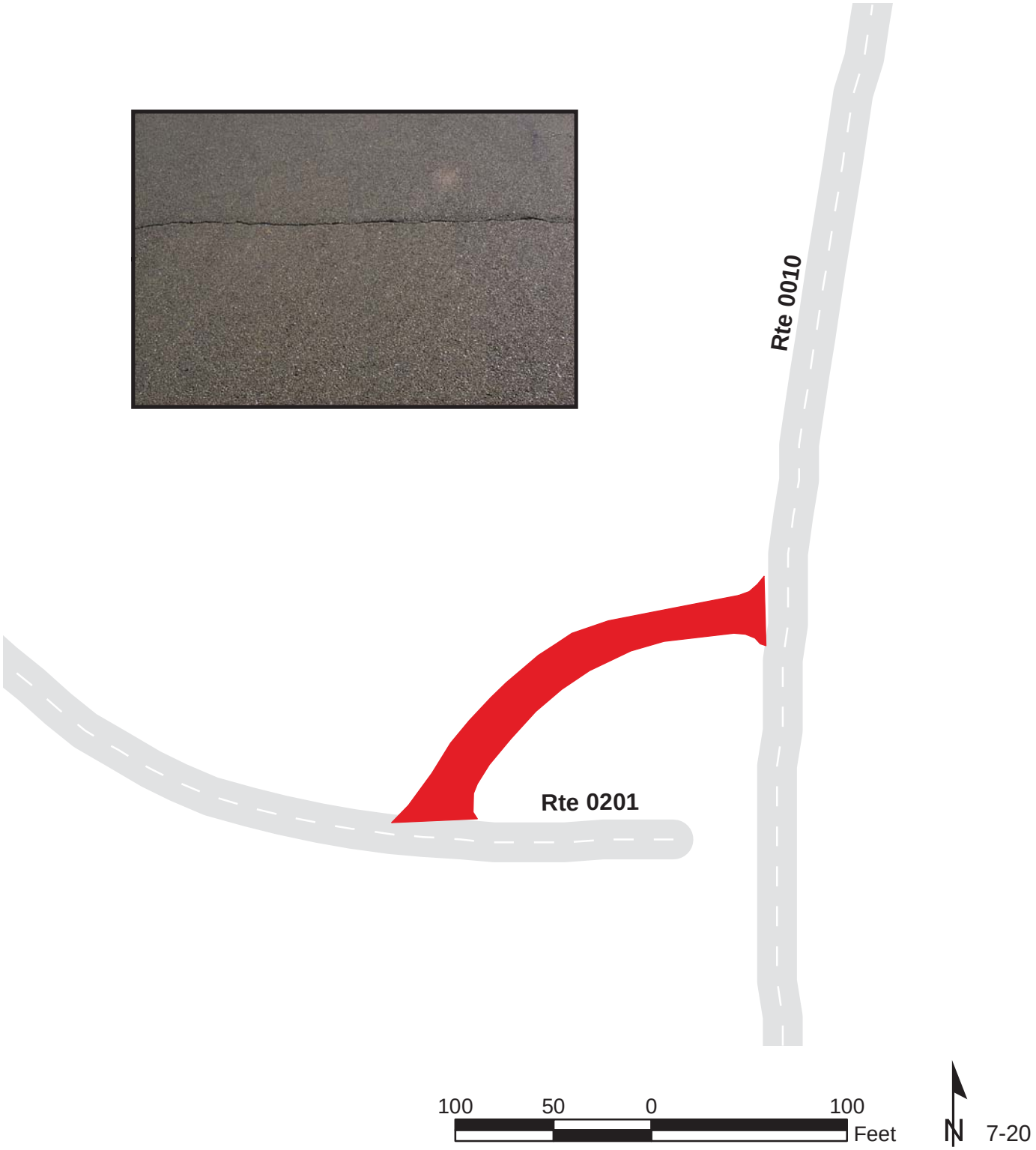
100 50 0 100
Feet

N

Lake Meredith National Recreation Area
Route 0911
CEDAR CANYON CAMPGROUND KIOSK
From Route 0010

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0911	Public	3/9/2003	3684	0.06	AS	FAIR / 73

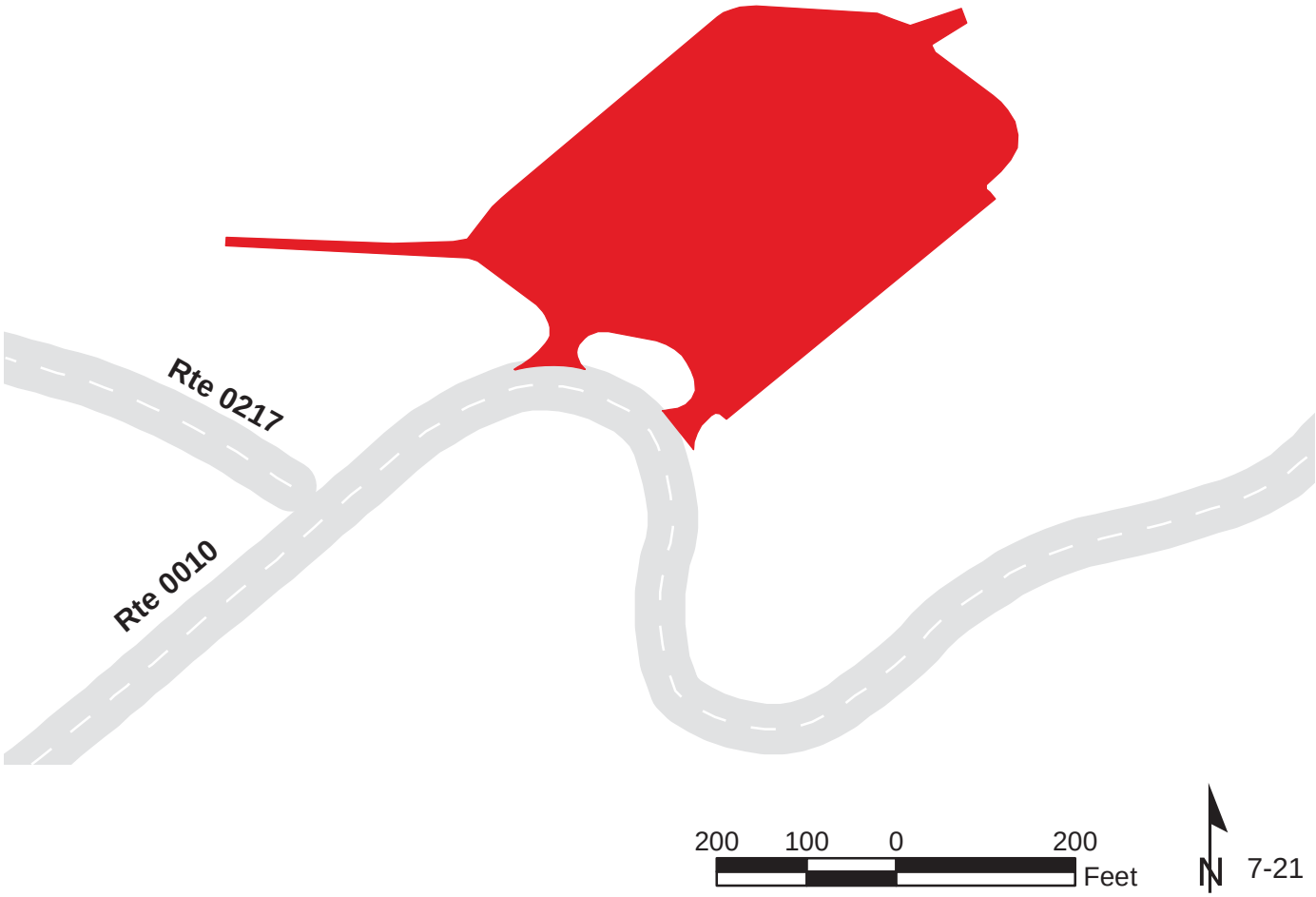
* Lane miles are based on 11' lane widths



Lake Meredith National Recreation Area
Route 0912
SANFORD YAKE UPPER MARINA PARKING
From Route 0010

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0912	Public	3/9/2003	139770	2.41	AS	FAIR / 73

* Lane miles are based on 11' lane widths



7-21

Lake Meredith National Recreation Area
Route 0913
SANFORD YAKE LOWER MARINA PARKING
From Route 0010

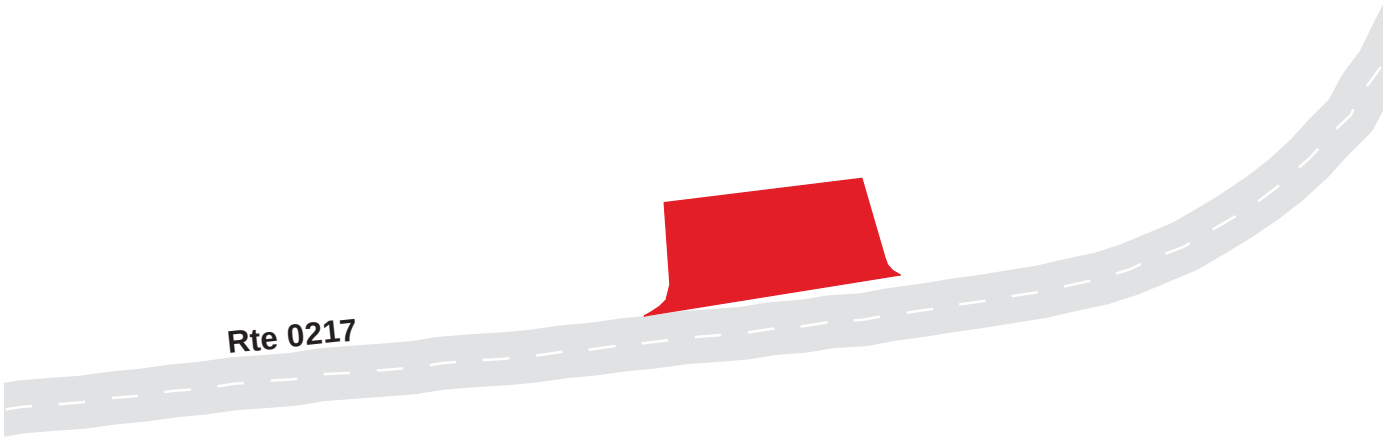
Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0913	Public	3/9/2003	19928	0.34	AS	POOR / 45

* Lane miles are based on 11' lane widths

Lake Meredith National Recreation Area
Route 0914
SANFORD YAKE COMFORT STATION PARKING
From Route 0217

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0914	Public	3/9/2003	6642	0.11	AS	FAIR / 73

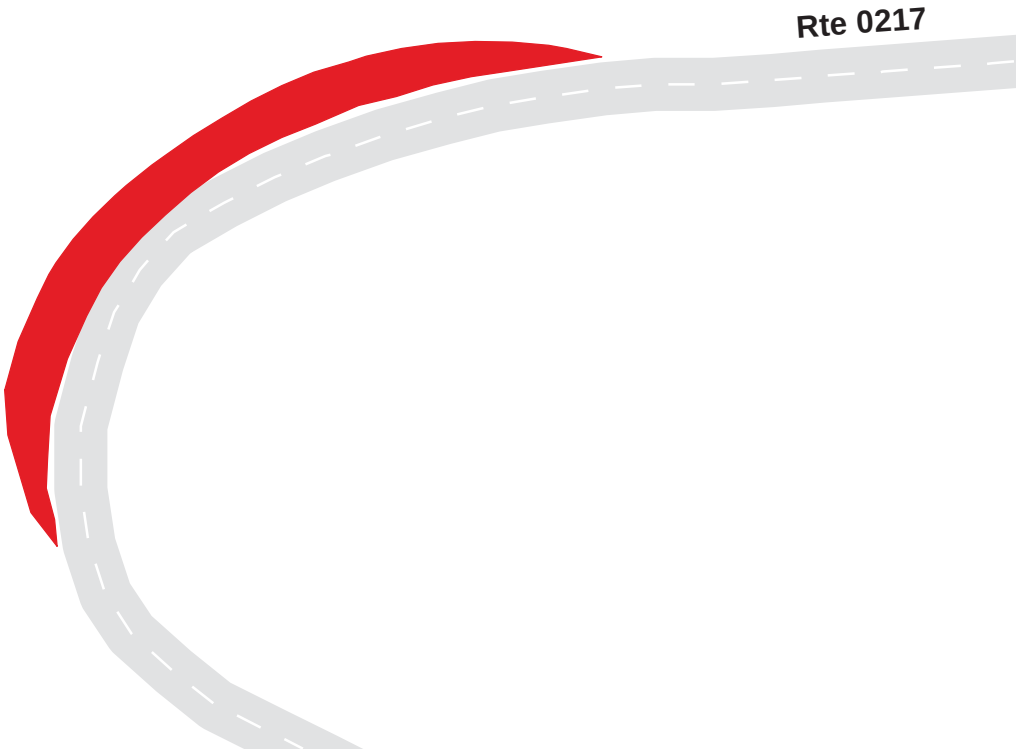
* Lane miles are based on 11' lane widths



Lake Meredith National Recreation Area
Route 0915A
SANFORD YAKE CAMPGROUND PARKING
From Route 0217

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0915A	Public	3/9/2003	3095	0.05	AS	GOOD / 90

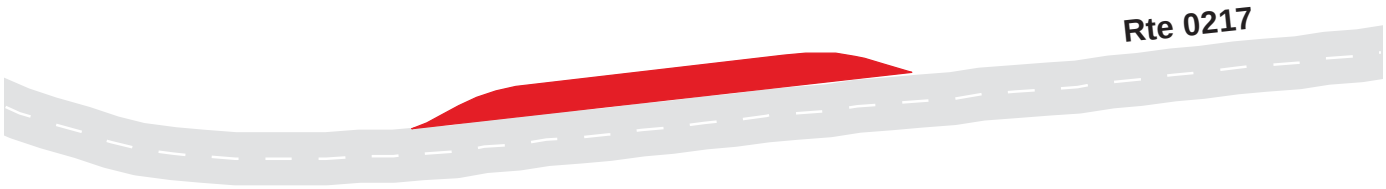
* Lane miles are based on 11' lane widths



Lake Meredith National Recreation Area
Route 0915B
SANFORD YAKE CAMPGROUND PARKING
From Route 0217

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0915B	Public	3/9/2003	3577	0.06	AS	GOOD / 90

* Lane miles are based on 11' lane widths



Lake Meredith National Recreation Area
Route 0915C
SANFORD YAKE CAMPGROUND PARKING
From Route 0217

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0915C	Public	3/9/2003	1174	0.02	AS	GOOD / 90

* Lane miles are based on 11' lane widths

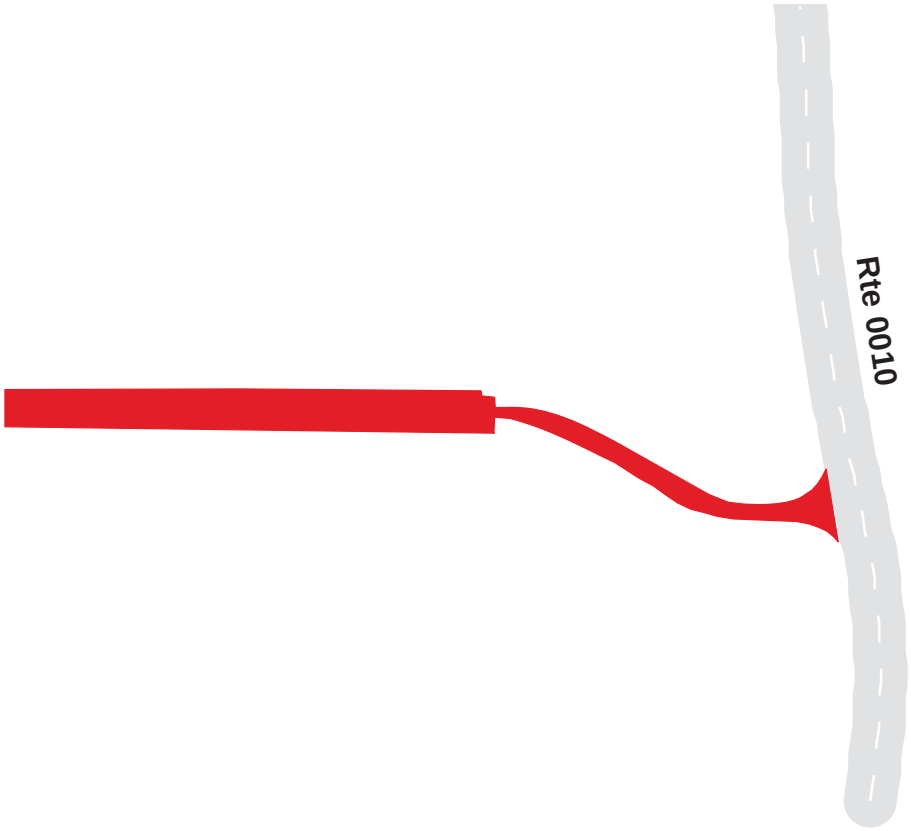
100 50 0 100 Feet

N

Lake Meredith National Recreation Area
Route 0916
RANGER STATION PARKING
From Route 0010

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0916	NonPublic	3/9/2003	32610	0.56	AS	POOR / 45

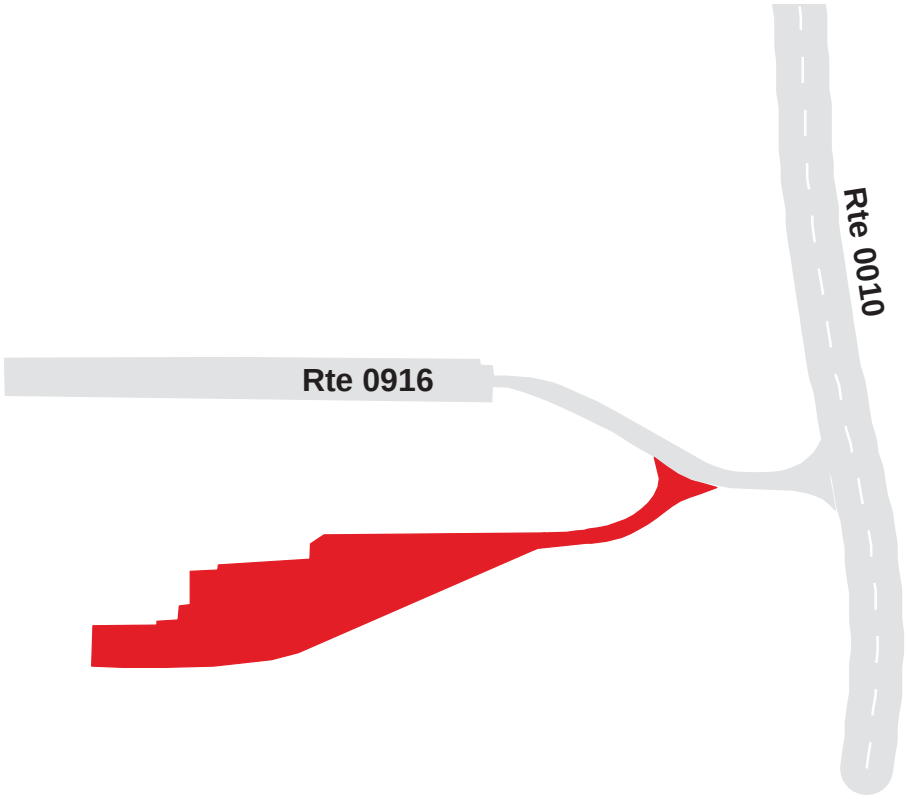
* Lane miles are based on 11' lane widths



Lake Meredith National Recreation Area
Route 0917
MAINTENANCE AREA
From Route 0916

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0917	NonPublic	3/9/2003	41127	0.71	AS	POOR / 45

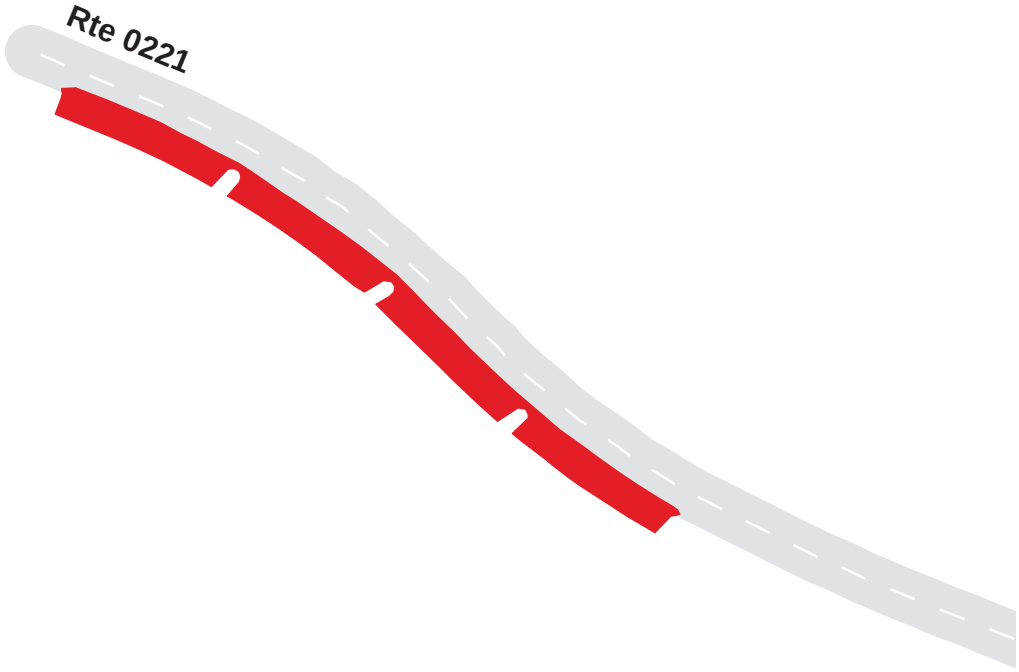
* Lane miles are based on 11' lane widths



Lake Meredith National Recreation Area
Route 0918A
SPRING CANYON PARKING
From Route 0221

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0918A	Public	3/9/2003	11878	0.20	AS	GOOD / 90

* Lane miles are based on 11' lane widths



200 100 0 200
Feet

N

Lake Meredith National Recreation Area
Route 0918B
SPRING CANYON PARKING
From Route 0221

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0918B	Public	3/9/2003	3207	0.06	AS	GOOD / 90

* Lane miles are based on 11' lane widths

100 50 0 100
Feet

N

7-30

Lake Meredith National Recreation Area
Route 0918C
SPRING CANYON PARKING
From Route 0221

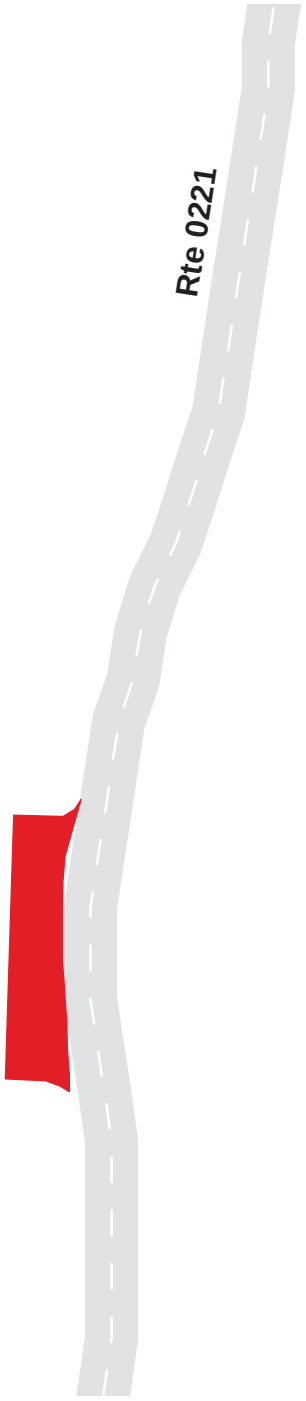
Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0918C	Public	3/9/2003	2146	0.04	AS	GOOD / 90

* Lane miles are based on 11' lane widths

Lake Meredith National Recreation Area
Route 0918D
SPRING CANYON PARKING
From Route 0221

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0918D	Public	3/9/2003	1860	0.03	AS	GOOD / 90

* Lane miles are based on 11' lane widths



100 50 0 100
Feet

N

Lake Meredith National Recreation Area
Route 0918E
SPRING CANYON PARKING
From Route 0221

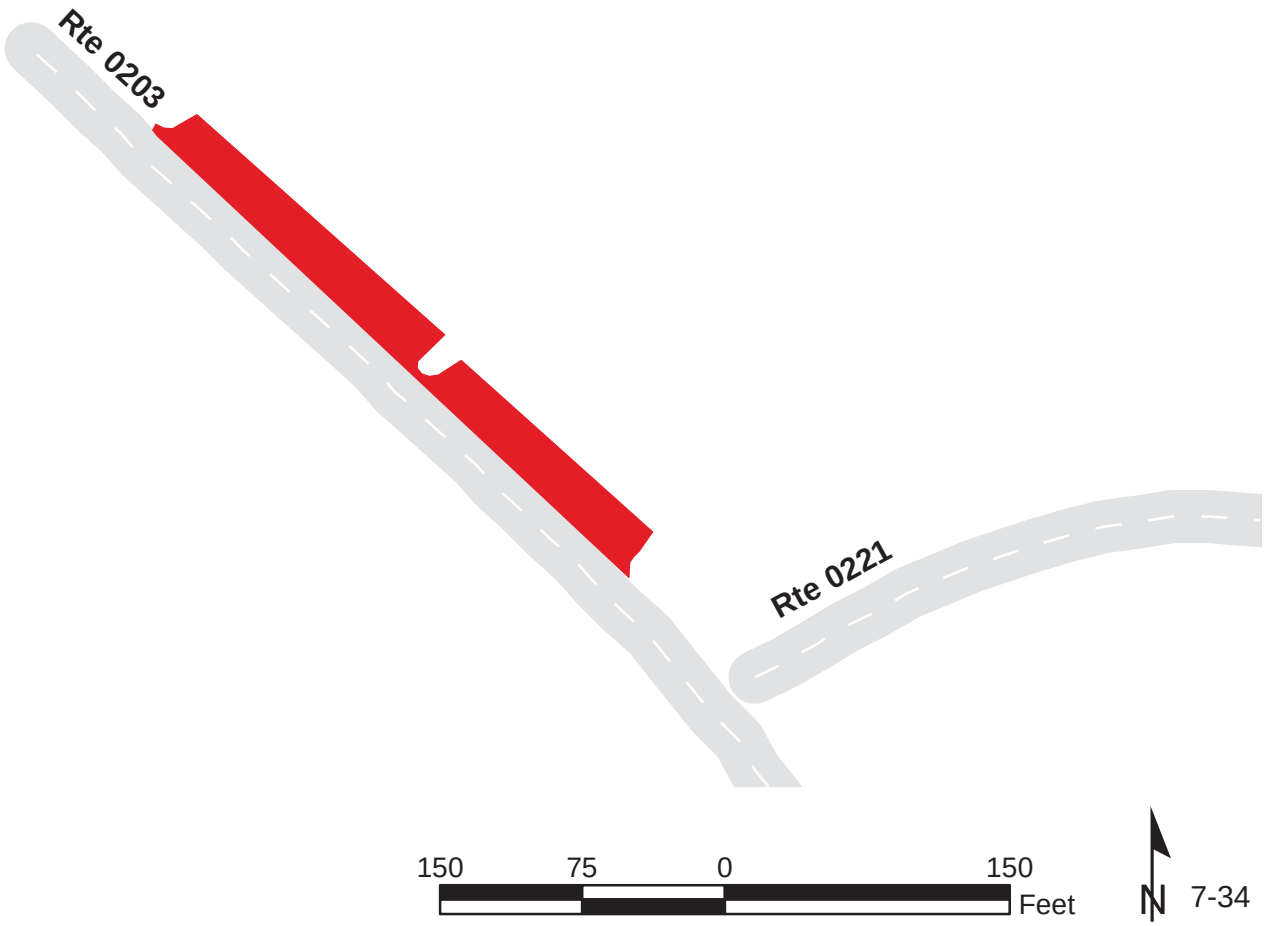
Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0918E	Public	3/9/2003	12796	0.22	AS	GOOD / 90

* Lane miles are based on 11' lane widths

Lake Meredith National Recreation Area
Route 0918F
SPRING CANYON PARKING F
From Route 0203

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0918F	Public	3/9/2003	6385	0.11	AS	GOOD / 90

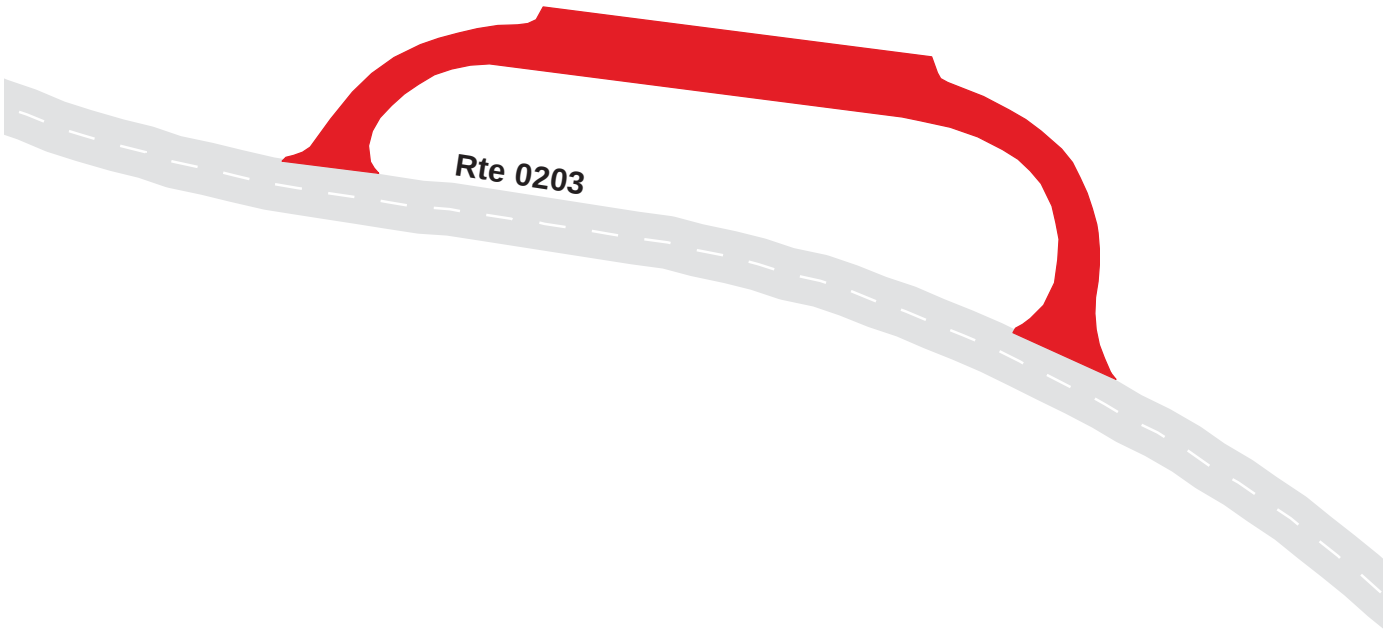
* Lane miles are based on 11' lane widths



Lake Meredith National Recreation Area
Route 0919
SPRING CANYON KIOSK PARKING
From Route 0203

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0919	Public	3/9/2003	14184	0.24	AS	GOOD / 90

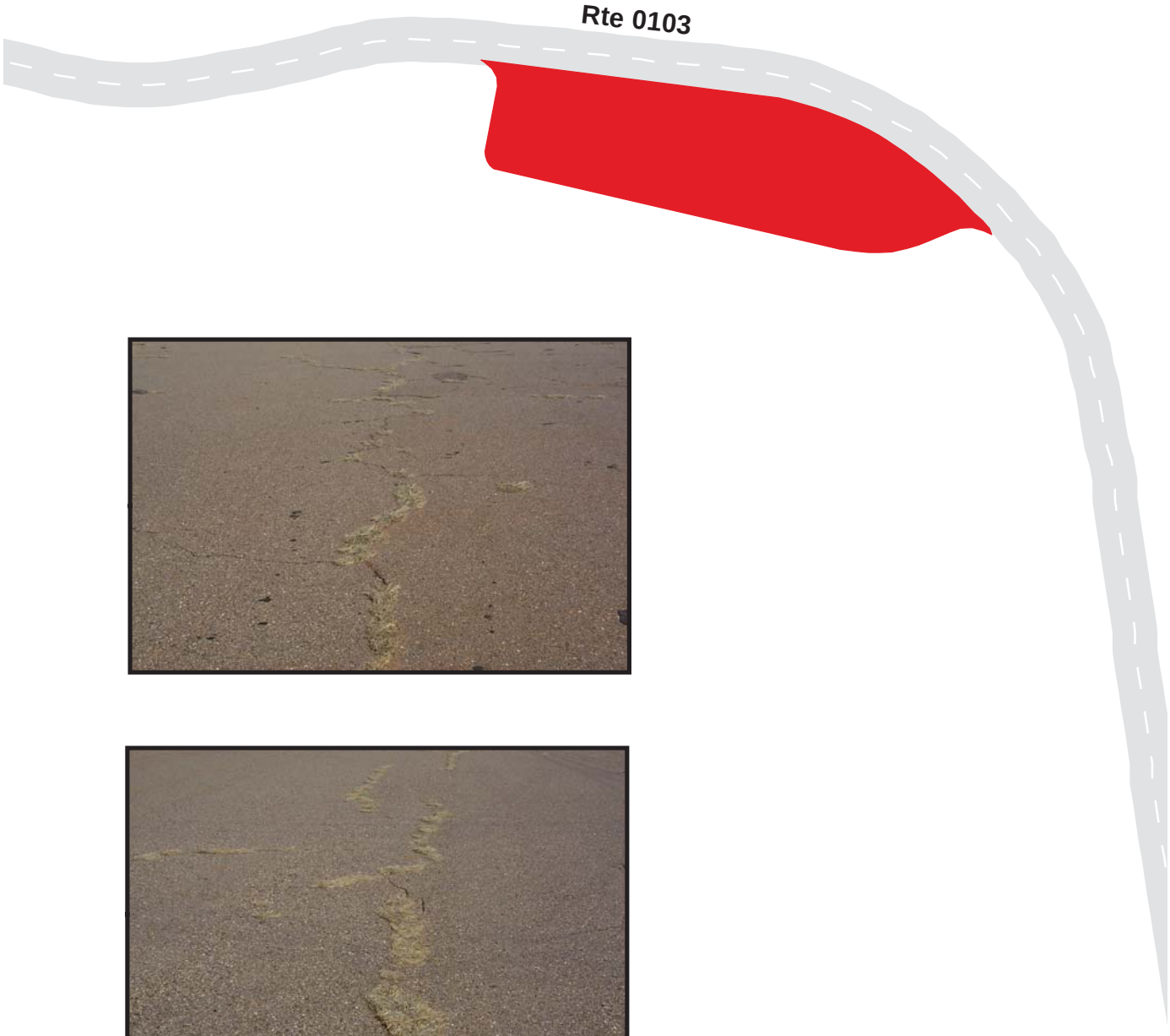
* Lane miles are based on 11' lane widths



Lake Meredith National Recreation Area
Route 0920
BATES CANYON PARKING
From Route 0103

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0920	Public	3/10/2003	41389	0.71	AS	POOR / 45

* Lane miles are based on 11' lane widths



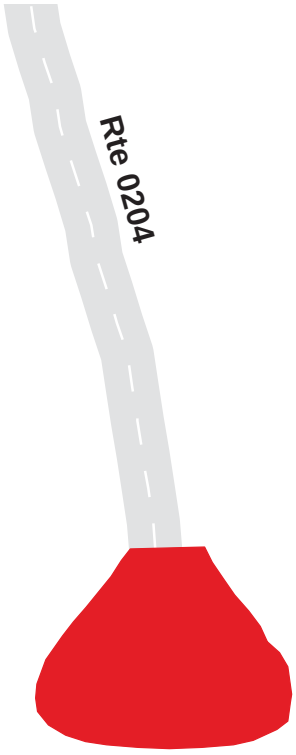
200 100 0 200
Feet

N

Lake Meredith National Recreation Area
Route 0921
NORTH VIEW POINT PARKING
From Route 0204

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0921	Public	3/10/2003	8881	0.15	AS	POOR / 45

* Lane miles are based on 11' lane widths



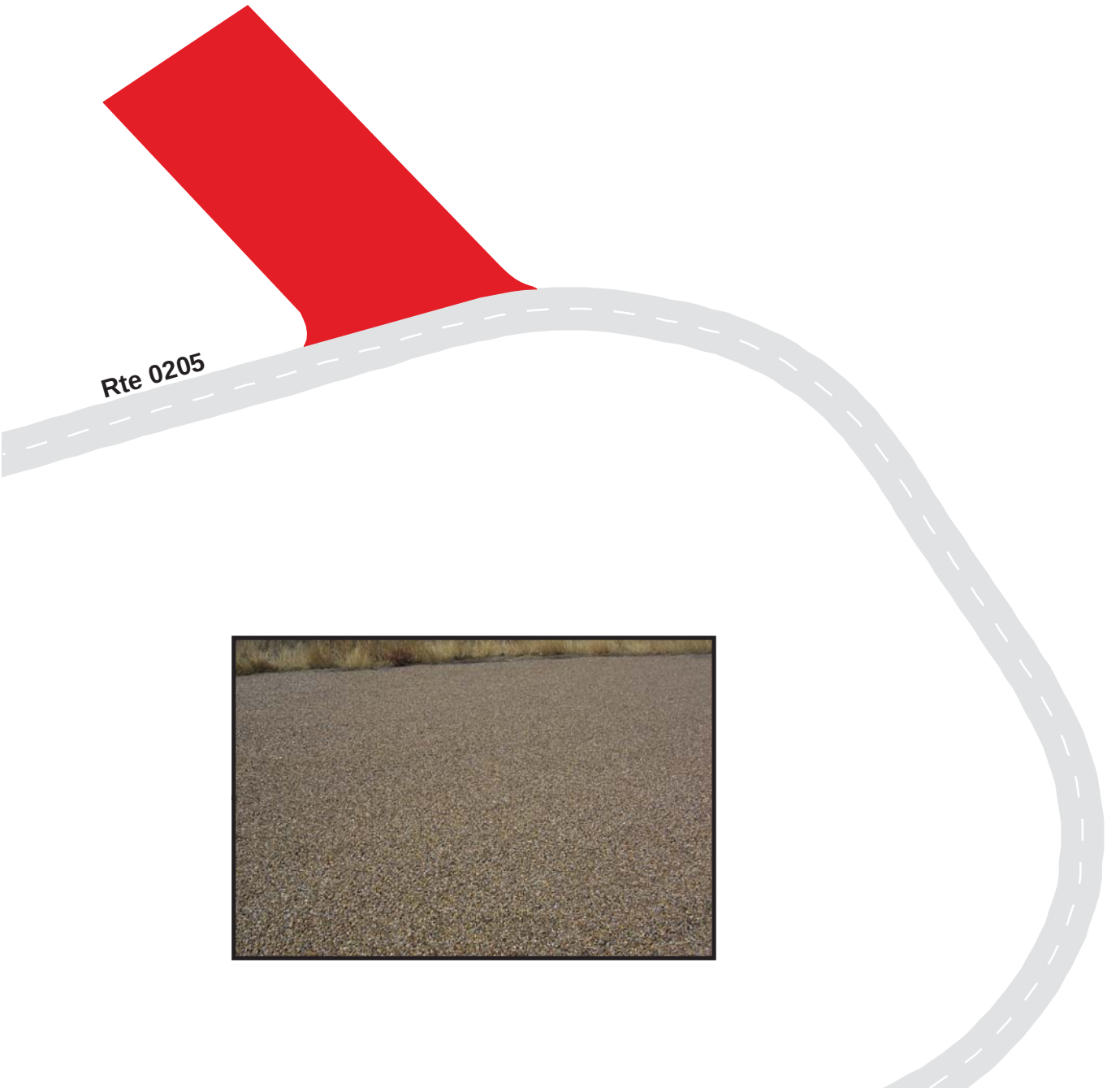
100 50 0 100
Feet

N

Lake Meredith National Recreation Area
Route 0922
BLUE WEST UPPER PARKING
From Route 0205

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0922	Public	3/10/2003	87589	1.51	NC	GOOD / 90

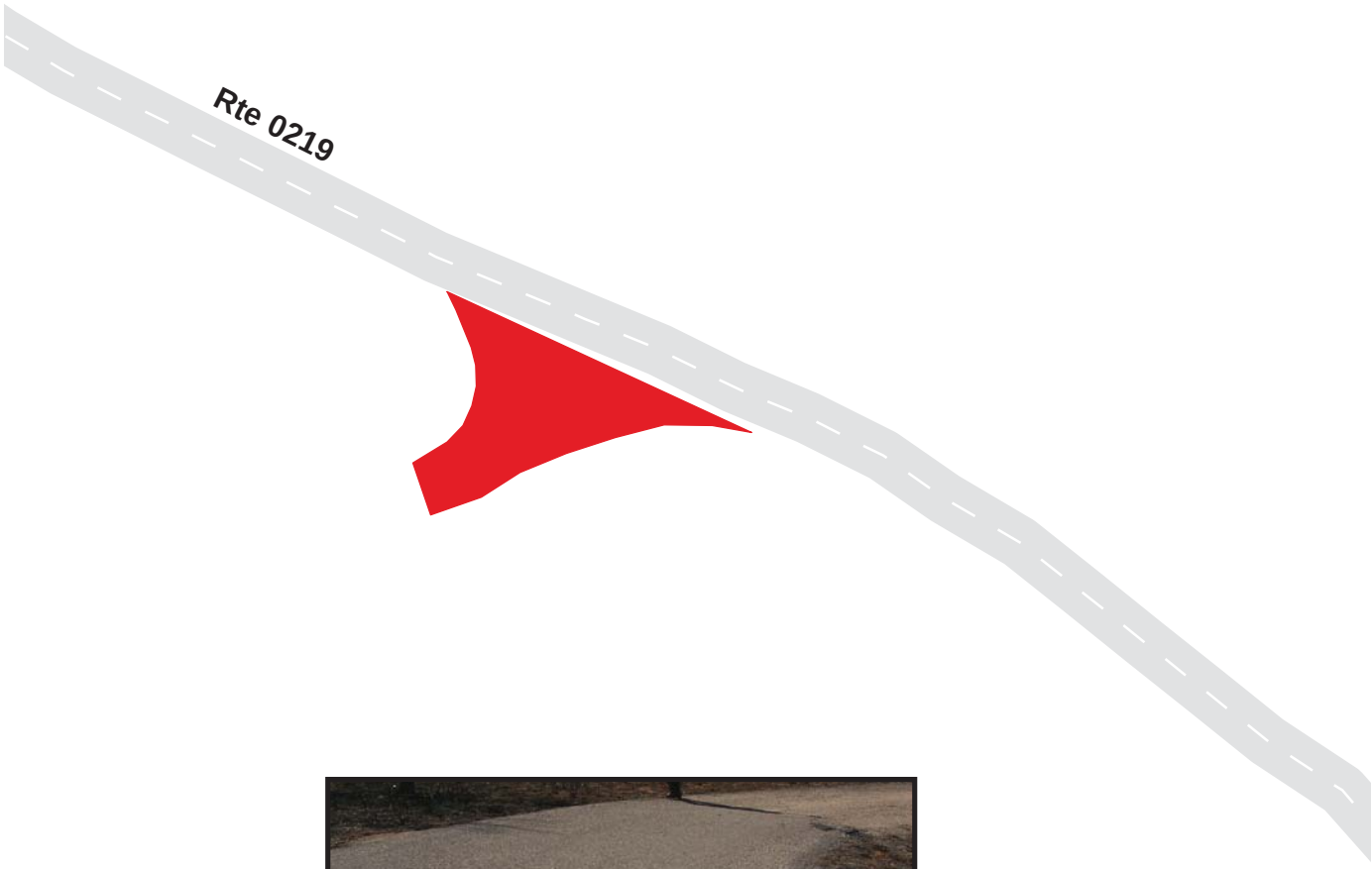
* Lane miles are based on 11' lane widths



Lake Meredith National Recreation Area
Route 0924
BUGBEE PICNIC AREA
From Route 0219

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0924	Public	3/10/2003	1070	0.02	AS	GOOD / 90

* Lane miles are based on 11' lane widths



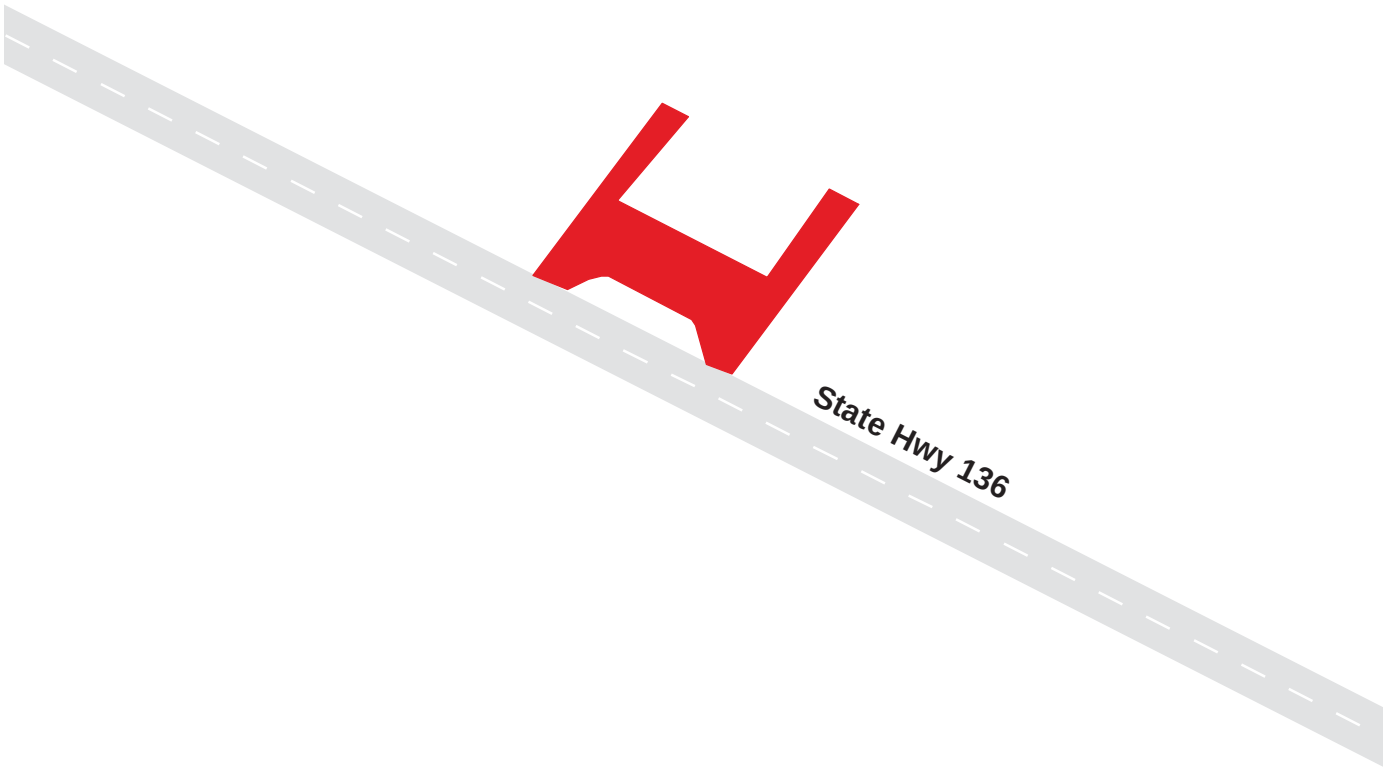
50 25 0 50 Feet

N

Lake Meredith National Recreation Area
Route 0925
PARK HEADQUARTERS VISITOR PARKING
From State Highway 136

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0925	Public	3/10/2003	7860	0.14	AS	POOR / 45

* Lane miles are based on 11' lane widths



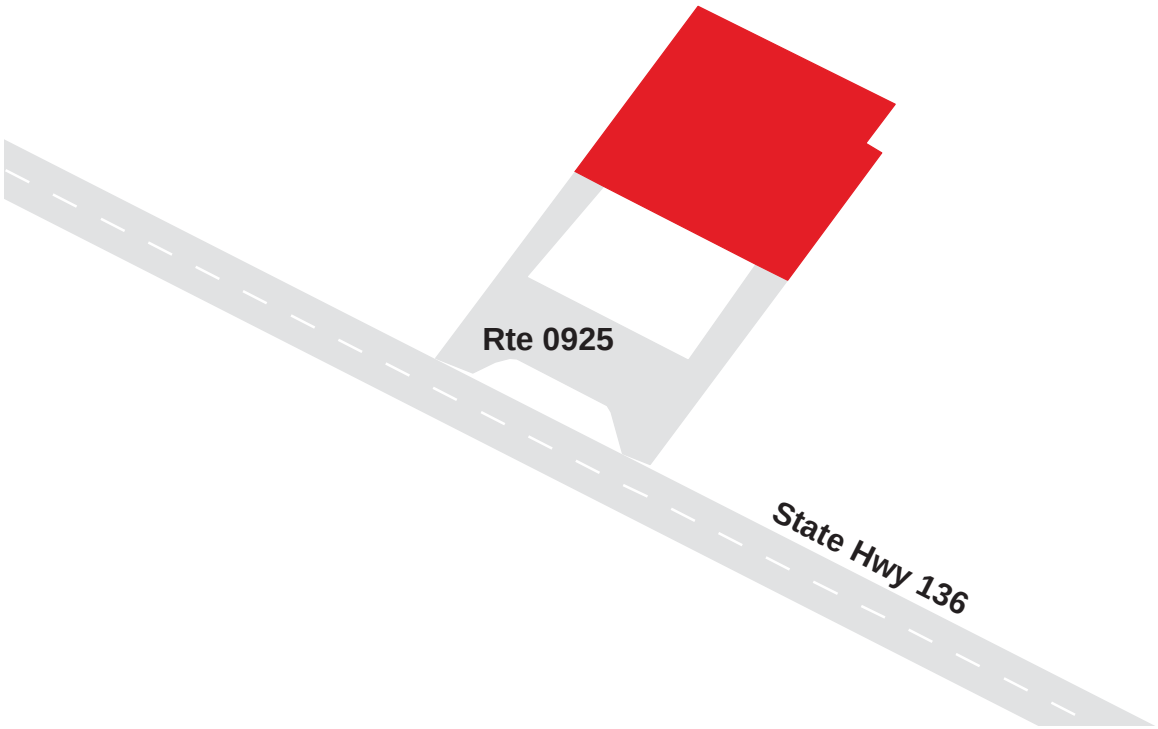
150 75 0 150
Feet

N

Lake Meredith National Recreation Area
Route 0926
PARK HEADQUARTERS ADMINISTRATIVE PARKING
From Route 0925

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0926	NonPublic	3/10/2003	12966	0.22	AS	POOR / 45

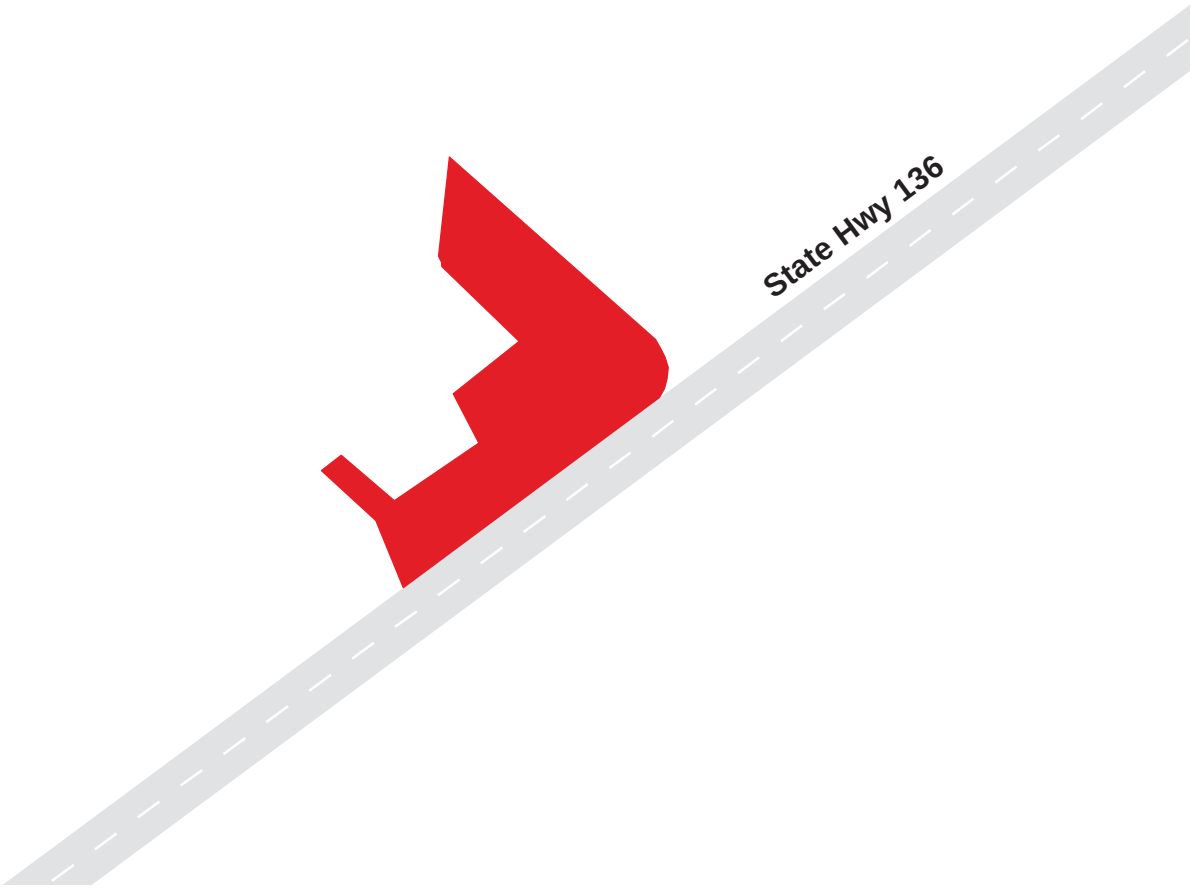
* Lane miles are based on 11' lane widths



Lake Meredith National Recreation Area
Route 0927
AQUATIC AND MUESUM PARKING
From State Highway 136

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0927	Public	3/10/2003	6973	0.12	AS	POOR / 45

* Lane miles are based on 11' lane widths



Lake Meredith National Recreation Area
Route 0928
CONTACT STATION PARKING
From Route 0106

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0928	Public	3/10/2003	24289	0.42	AS	FAIR / 73

* Lane miles are based on 11' lane widths

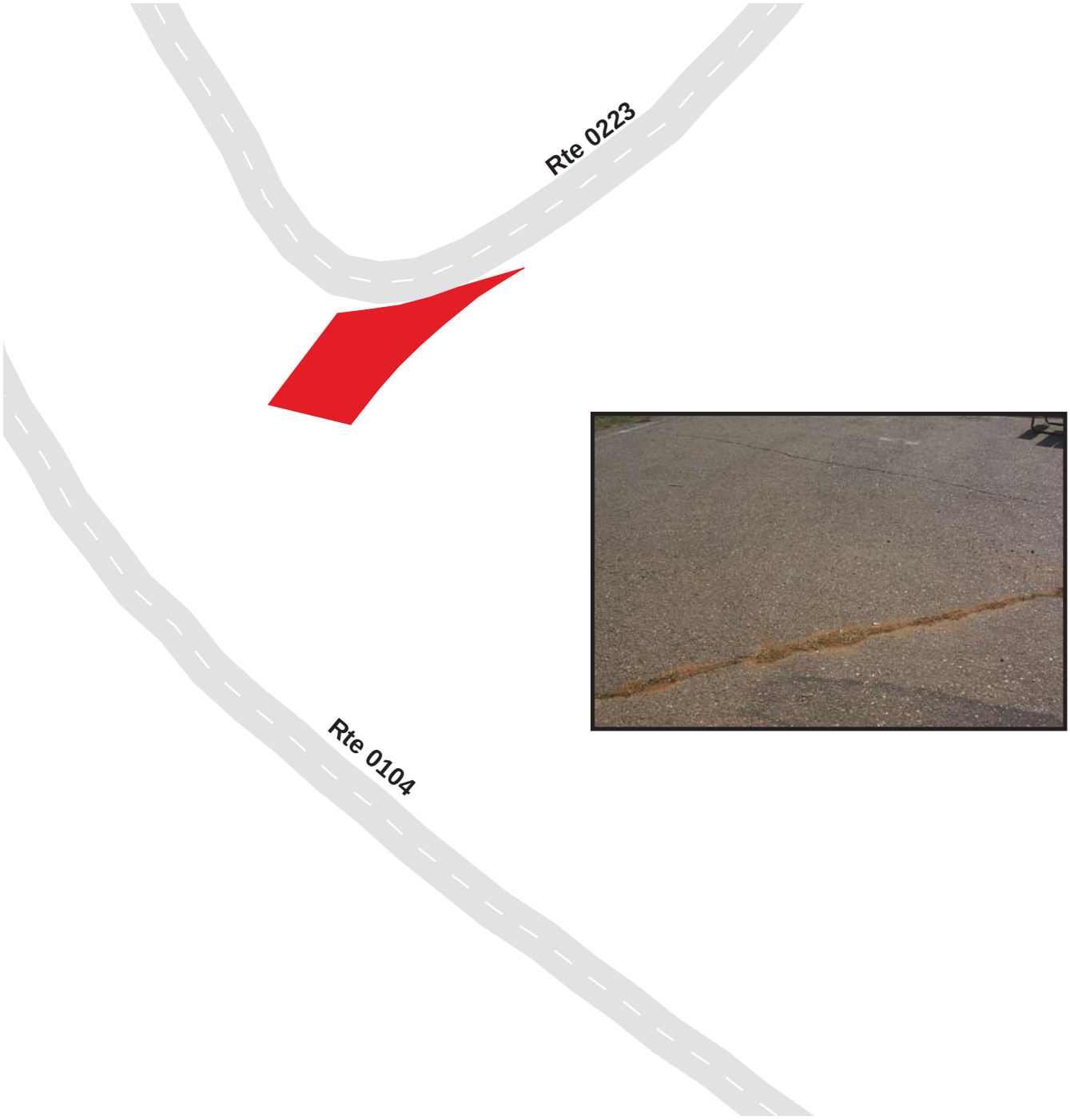
150 75 0 150
Feet

N

Lake Meredith National Recreation Area
Route 0929A
HARBOR BAY PICNIC PARKING A
From Route 0223

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0929A	Public	3/10/2003	1180	0.02	AS	POOR / 45

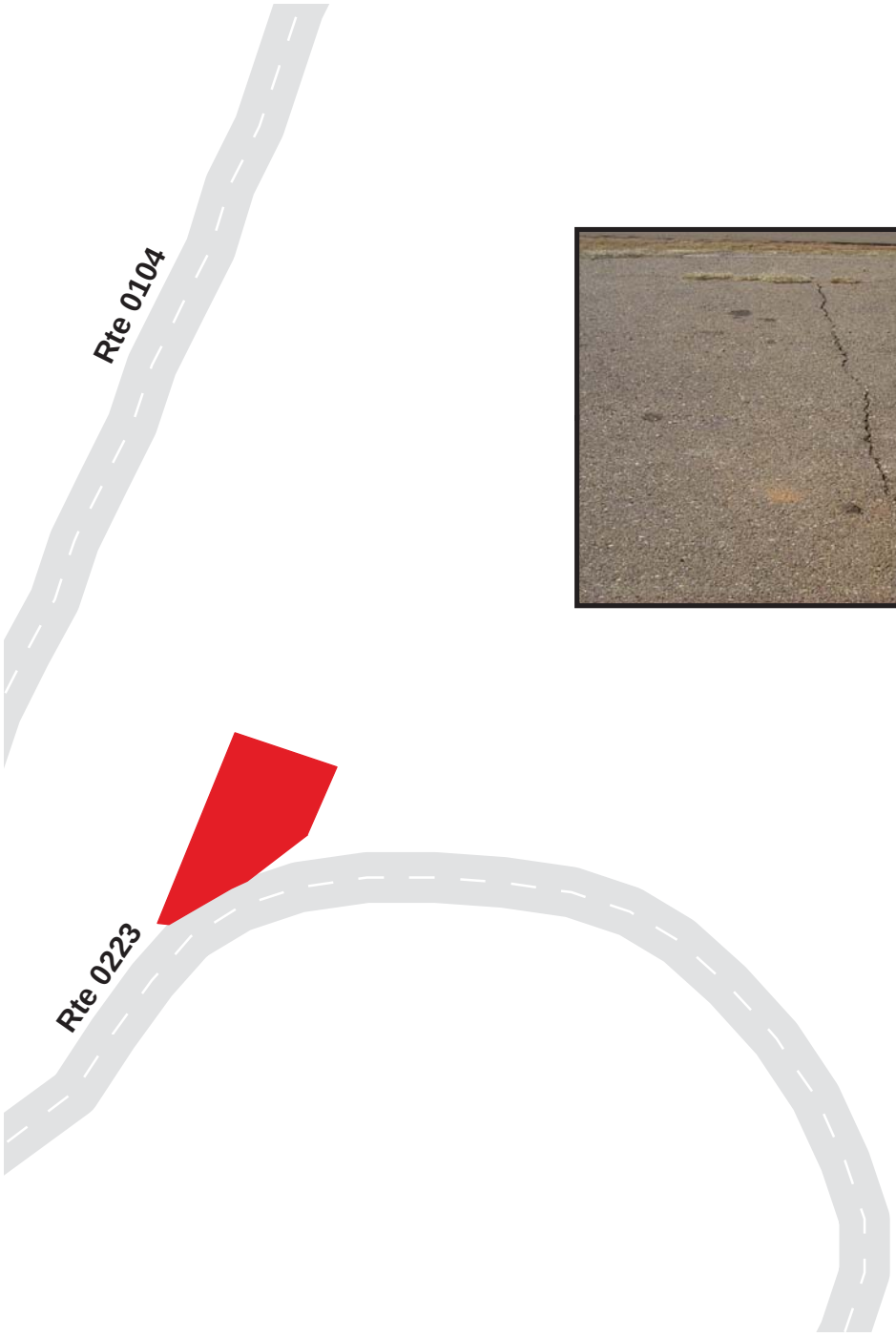
* Lane miles are based on 11' lane widths



Lake Meredith National Recreation Area
Route 0929B
HARBOR BAY PICNIC PARKING B
From Route 0223

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0929B	Public	3/10/2003	1049	0.02	AS	POOR / 45

* Lane miles are based on 11' lane widths



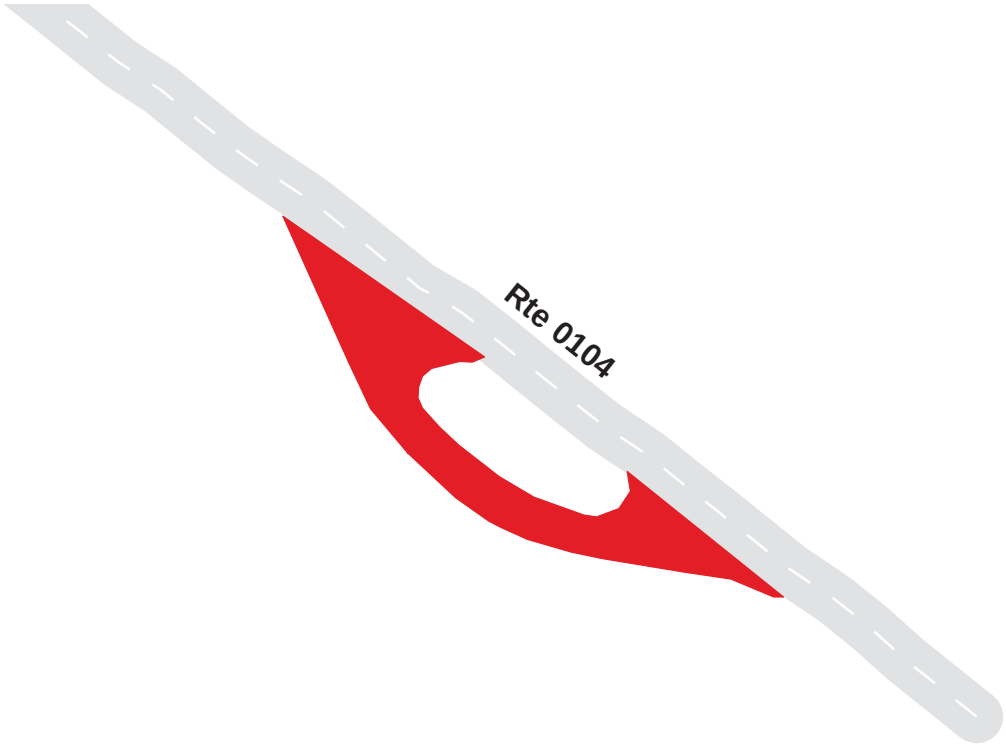
50 25 0 50
Feet

N

Lake Meredith National Recreation Area
Route 0930
HARBOR BAY KIOSK
From Route 0104

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0930	Public	3/10/2003	3915	0.07	AS	GOOD / 90

* Lane miles are based on 11' lane widths



100 50 0 100 Feet

N

LAMR: PARKWIDE MAINTENANCE FEATURES SUMMARY

FEATURE	*PARK TOTAL*	*UNIT*
BRIDGE	0	EACH
CATTLE GUARD	0	EACH
CULVERT	40	EACH
CURB	11,040	LINEAR FEET
DROP INLET	3	EACH
GUARD WALL	0	LINEAR FEET
GUARDRAIL	6,663	LINEAR FEET
INTERSECTION	169	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	0	EACH
PAVED DITCH	11,848	LINEAR FEET
PULLOUT	10	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	0	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	0	EACH
TUNNEL	0	EACH
TURNOUT	0	LINEAR FEET

LAMR: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0010 SANFORD YAKE ROAD	ROUTE 0100 FRITCH FORTRESS ROAD	ROUTE 0101 BLUE WEST ACCESS ROAD	ROUTE 0102 PLUM CREEK ACCESS ROAD	ROUTE 0103 BATES CANYON ROAD	ROUTE 0104 HARBOR BAY ROAD	UNIT
BRIDGE	0	0	0	0	0	0	EACH
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	2	2	10	6	3	2	EACH
CURB	644	1,035	0	972	0	417	LINEAR FEET
DROP INLET	1	1	0	0	0	0	EACH
GUARD WALL	0	0	0	0	0	0	LINEAR FEET
GUARDRAIL	401	3,342	0	0	280	0	LINEAR FEET
INTERSECTION	18	8	12	9	2	11	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	343	3,923	2,360	1,489	517	0	LINEAR FEET
PULLOUT	0	2	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

LAMR: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0106 ALIBATES TOUR ROAD	ROUTE 0200 FRITCH AMPHITHEATER ROAD	ROUTE 0201 CEDAR CANYON ACCESS ROAD	ROUTE 0202 FRITCH PICNIC ROAD	ROUTE 0203 STILLING BASIN ROAD	ROUTE 0204 NORTH VIEW POINT ROAD	UNIT
BRIDGE	0	0	0	0	0	0	EACH
CATTLE GUARD	0	0	0	0	0	0	EACH
CULVERT	1	4	0	2	2	0	EACH
CURB	2,212	248	0	422	929	0	LINEAR FEET
DROP INLET	0	0	1	0	0	0	EACH
GUARD WALL	0	0	0	0	0	0	LINEAR FEET
GUARDRAIL	0	211	913	0	1,267	0	LINEAR FEET
INTERSECTION	14	8	6	14	10	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	2,038	0	1,177	0	LINEAR FEET
PULLOUT	2	1	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

LAMR: ROUTE MAINTENANCE FEATURES SUMMARY

FEATURE	ROUTE 0205 BLUE WEST PICNIC ROAD	ROUTE 0217 SANFORD YAKE CAMPGROUND LOOP	ROUTE 0219 BUGBEE ACCESS ROAD	ROUTE 0221 SPRING CANYON ROAD	ROUTE 0223 HARBOR BAY PICNIC RD	UNIT
BRIDGE	0	0	0	0	0	EACH
CATTLE GUARD	0	0	0	0	0	EACH
CULVERT	2	2	2	0	0	EACH
CURB	0	0	0	4,161	0	LINEAR FEET
DROP INLET	0	0	0	0	0	EACH
GUARD WALL	0	0	0	0	0	LINEAR FEET
GUARDRAIL	0	0	248	0	0	LINEAR FEET
INTERSECTION	14	15	2	13	8	EACH
LOW WATER CROSSING	0	0	0	0	0	EACH
OVERHEAD SIGN	0	0	0	0	0	EACH
PARK BOUNDARY	0	0	0	0	0	EACH
PAVED DITCH	0	0	0	0	0	LINEAR FEET
PULLOUT	0	0	1	0	4	EACH
RAILROAD CROSSING	0	0	0	0	0	EACH
RETAINING WALL	0	0	0	0	0	EACH
STATE BOUNDARY	0	0	0	0	0	EACH
TRAFFIC LIGHT	0	0	0	0	0	EACH
TUNNEL	0	0	0	0	0	EACH
TURNOUT	0	0	0	0	0	LINEAR FEET

LAMR: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : SANFORD YAKE ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT EAST BOUNDARY
0.014	0.014	INTERSECTION	RIGHT	UNPAVED NPS ROAD
0.019	0.019	INTERSECTION	LEFT	
0.036	0.036	INTERSECTION	RIGHT	
0.082	0.082	INTERSECTION	LEFT	RTE 916
0.187	0.187	INTERSECTION	RIGHT	RTE 910
0.222	0.222	INTERSECTION	RIGHT	RTE 910
0.236	0.236	CULVERT	N/A	
0.266	0.266	INTERSECTION	LEFT	RTE 201
0.274	0.274	INTERSECTION	LEFT	RTE 911
0.280	0.280	DROP INLET	LEFT	
0.444	0.444	INTERSECTION	LEFT	
0.445	0.445	INTERSECTION	RIGHT	UNPAVED NPS ROAD
0.493	0.493	INTERSECTION	LEFT	UNPAVED NPS ROAD
0.856	0.856	CULVERT	N/A	
0.890	0.890	INTERSECTION	RIGHT	UNPAVED NPS ROAD
0.890	0.969	CURB	LEFT	
0.953	1.015	GUARDRAIL	LEFT	
1.246	1.246	INTERSECTION	LEFT	RTE 217
1.295	1.295	INTERSECTION	LEFT	RTE 912
1.311	1.322	CURB	LEFT	
1.312	1.312	INTERSECTION	LEFT	RTE 912
1.330	1.362	CURB	LEFT	
1.335	1.400	PAVED DITCH	RIGHT	
1.401	1.415	GUARDRAIL	RIGHT	
1.420	1.420	INTERSECTION	RIGHT	RTE 913
1.444	1.444	INTERSECTION	RIGHT	RTE 913

LAMR: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0010 : SANFORD YAKE ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
1.504	1.504	INTERSECTION	RIGHT	
1.510	1.510			ROUTE ENDS AT END (BOAT RAMP)

LAMR: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0100 : FRITCH FORTRESS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT WEST BOUNDARY
0.008	0.008	INTERSECTION	LEFT	BOAT RAMP
0.054	0.131	PAVED DITCH	RIGHT	
0.057	0.163	PAVED DITCH	LEFT	
0.137	0.429	GUARDRAIL	RIGHT	
0.165	0.231	GUARDRAIL	LEFT	
0.267	0.289	CURB	LEFT	
0.314	0.434	PAVED DITCH	LEFT	
0.428	0.447	PULLOUT	RIGHT	
0.469	0.469	INTERSECTION	RIGHT	RTE 200
0.632	0.632	INTERSECTION	LEFT	RTE 906
0.659	0.659	INTERSECTION	LEFT	RTE 906
0.702	0.702	CULVERT	N/A	
0.789	0.789	CULVERT	N/A	
0.848	0.848	INTERSECTION	LEFT	RTE 202
0.854	0.858	CURB	LEFT	
0.977	0.977	INTERSECTION	LEFT	RTE 202
0.982	0.982	INTERSECTION	RIGHT	RTE 200
0.995	1.435	PAVED DITCH	RIGHT	
1.032	1.307	GUARDRAIL	LEFT	
1.044	1.184	CURB	LEFT	
1.045	1.100	PULLOUT	LEFT	
1.302	1.302	DROP INLET	RIGHT	
1.316	1.316	INTERSECTION	LEFT	RTE 904
1.317	1.347	CURB	LEFT	
1.420	1.420			ROUTE ENDS AT END OF BOAT RAMP

LAMR: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0101 : BLUE WEST ACCESS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT STATE HIGHWAY 1913
0.011	0.011	INTERSECTION	LEFT	STATE HIGHWAY 1913
0.052	0.052	INTERSECTION	LEFT	RTE 101 SPUR
1.204	1.204	INTERSECTION	RIGHT	UNPAVED NPS ROAD
1.296	1.296	CULVERT	N/A	
1.599	1.599	CULVERT	N/A	
1.724	1.724	INTERSECTION	LEFT	UNPAVED NPS ROAD
2.110	2.110	CULVERT	N/A	
2.250	2.250	CULVERT	N/A	
2.314	2.314	CULVERT	N/A	
2.495	2.495	INTERSECTION	LEFT	UNPAVED NPS ROAD
2.587	2.587	CULVERT	N/A	
2.665	2.665	CULVERT	N/A	
2.813	2.813	CULVERT	N/A	
3.104	3.104	INTERSECTION	RIGHT	UNPAVED NPS ROAD
3.235	3.235	INTERSECTION	RIGHT	RTE NPS ROAD
3.425	3.425	INTERSECTION	RIGHT	UNPAVED NPS ROAD
3.469	3.469	INTERSECTION	RIGHT	UNPAVED NPS ROAD
3.566	3.566	INTERSECTION	RIGHT	UNPAVED NPS ROAD
3.811	3.811	INTERSECTION	RIGHT	RTE 205
3.940	3.940	CULVERT	N/A	
3.985	3.985	CULVERT	N/A	
4.008	4.008	INTERSECTION	RIGHT	RTE 205
4.012	4.199	PAVED DITCH	LEFT	
4.025	4.285	PAVED DITCH	RIGHT	
4.280	4.280			ROUTE ENDS AT END (BOAT RAMP)

LAMR: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0102 : PLUM CREEK ACCESS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT NORTH BOUNDARY
0.022	0.022	INTERSECTION	LEFT	UNPAVED NPS ROAD
0.376	0.567	PAVED DITCH	RIGHT	
0.383	0.474	PAVED DITCH	LEFT	
0.505	0.505	INTERSECTION	LEFT	
0.520	0.631	CURB	LEFT	
0.688	0.688	INTERSECTION	RIGHT	UNPAVED NPS ROAD
0.729	0.729	INTERSECTION	RIGHT	
0.739	0.739	CULVERT	N/A	
0.999	0.999	CULVERT	N/A	
1.002	1.002	CULVERT	N/A	
1.256	1.256	INTERSECTION	LEFT	
1.256	1.256	INTERSECTION	RIGHT	UNPAVED NPS ROAD
1.353	1.353	CULVERT	N/A	
1.520	1.520	CULVERT	N/A	
1.606	1.606	CULVERT	N/A	
1.651	1.651	INTERSECTION	LEFT	RTE 907
1.664	1.737	CURB	LEFT	
1.742	1.742	INTERSECTION	LEFT	RTE 907
1.759	1.759	INTERSECTION	RIGHT	UNPAVED NPS ROAD
1.800	1.800			ROUTE ENDS AT END (BOAT RAMP)

LAMR: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0103 : BATES CANYON ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT CASS JOHNSON ROAD
0.050	0.148	PAVED DITCH	RIGHT	
0.054	0.107	GUARDRAIL	LEFT	
0.274	0.274	INTERSECTION	RIGHT	RTE 106
0.375	0.375	CULVERT	N/A	
0.567	0.567	CULVERT	N/A	
0.813	0.813	CULVERT	N/A	
0.909	0.909	INTERSECTION	LEFT	RTE 920
0.990	0.990			ROUTE ENDS AT ROUTE 920

LAMR: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0104 : HARBOR BAY ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT WEST BOUNDARY
0.032	0.032	INTERSECTION	LEFT	RTE 900D
0.055	0.055	INTERSECTION	LEFT	RTE 900D
0.093	0.093	CULVERT	N/A	
0.161	0.161	INTERSECTION	LEFT	UNPAVED NPS ROAD
0.178	0.178	INTERSECTION	LEFT	
0.187	0.187	CULVERT	N/A	
0.206	0.206	INTERSECTION	RIGHT	RTE 900C
0.254	0.254	INTERSECTION	LEFT	UNPAVED NPS ROAD
0.328	0.328	INTERSECTION	RIGHT	UNPAVED NPS ROAD
0.356	0.356	INTERSECTION	LEFT	UNPAVED NPS ROAD
0.427	0.427	INTERSECTION	LEFT	UNPAVED NPS ROAD
0.442	0.442	INTERSECTION	RIGHT	RTE 900B
0.458	0.510	CURB	RIGHT	
0.488	0.512	CURB	LEFT	
0.494	0.494	INTERSECTION	LEFT	RTE 900A
0.513	0.516	CURB	RIGHT	
0.530	0.530			ROUTE ENDS AT END OF BOAT RAMP

LAMR: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0106 : ALIBATES TOUR ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT ROUTE 103
0.004	0.004	CULVERT	N/A	
0.006	0.006	INTERSECTION	LEFT	RTE 103
0.008	0.008	INTERSECTION	RIGHT	RTE 103
0.016	0.016	INTERSECTION	RIGHT	RTE 928
0.136	0.136	INTERSECTION	RIGHT	UNPAVED NPS ROAD
0.206	0.206	INTERSECTION	LEFT	UNPAVED NPS ROAD
0.464	0.464	INTERSECTION	LEFT	UNPAVED NPS ROAD
0.774	0.774	INTERSECTION	RIGHT	UNPAVED NPS ROAD
0.971	1.030	CURB	RIGHT	
1.139	1.178	PULLOUT	LEFT	
1.291	1.331	PULLOUT	RIGHT	
1.326	1.337	CURB	LEFT	
1.333	1.400	CURB	RIGHT	
1.347	1.347	INTERSECTION	LEFT	UNPAVED NPS ROAD
1.356	1.407	CURB	LEFT	
1.425	1.425	INTERSECTION	LEFT	UNPAVED NPS ROAD
1.700	1.700	INTERSECTION	LEFT	UNPAVED NPS ROAD
1.777	1.777	INTERSECTION	RIGHT	UNPAVED NPS ROAD
1.860	1.860	INTERSECTION	LEFT	UNPAVED NPS ROAD
1.986	2.045	CURB	RIGHT	
1.991	2.037	CURB	LEFT	
2.073	2.075	CURB	LEFT	
2.079	2.147	CURB	RIGHT	
2.105	2.147	CURB	LEFT	
2.154	2.168	CURB	LEFT	
2.275	2.275	INTERSECTION	LEFT	

LAMR: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0106 : ALIBATES TOUR ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
2.320	2.320	INTERSECTION	LEFT	UNPAVED NPS ROAD
2.540	2.540			ROUTE ENDS AT END

LAMR: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0200 : FRITCH AMPHITHEATER ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT RTE 100
0.006	0.006	INTERSECTION	LEFT	RTE 100
0.006	0.006	INTERSECTION	RIGHT	RTE 100
0.120	0.120	CULVERT	N/A	
0.192	0.192	INTERSECTION	LEFT	RTE 902
0.192	0.192	INTERSECTION	RIGHT	RTE 901
0.270	0.270	INTERSECTION	LEFT	RTE 902
0.271	0.271	INTERSECTION	RIGHT	RTE 901
0.295	0.295	CULVERT	N/A	
0.357	0.357	CULVERT	N/A	
0.452	0.499	CURB	RIGHT	
0.453	0.498	PULLOUT	RIGHT	
0.575	0.615	GUARDRAIL	RIGHT	
0.755	0.755	CULVERT	N/A	
0.760	0.760			ROUTE ENDS AT RTE 100
0.763	0.763	INTERSECTION	LEFT	RTE 100
0.764	0.764	INTERSECTION	RIGHT	RTE 100

LAMR: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0201 : CEDAR CANYON ACCESS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT RTE 010
0.009	0.009	INTERSECTION	LEFT	RTE 010
0.010	0.010	INTERSECTION	RIGHT	RTE 010
0.036	0.036	INTERSECTION	RIGHT	RTE 911
0.095	0.095	INTERSECTION	LEFT	
0.253	0.253	INTERSECTION	RIGHT	UNPAVED NPS ROAD
0.269	0.362	PAVED DITCH	RIGHT	
0.275	0.515	PAVED DITCH	LEFT	
0.362	0.535	GUARDRAIL	RIGHT	
0.379	0.379	DROP INLET	LEFT	
0.524	0.524	INTERSECTION	LEFT	
0.537	0.590	PAVED DITCH	RIGHT	
0.580	0.580			ROUTE ENDS AT END (BOAT RAMP)

LAMR: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0202 : FRITCH PICNIC ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT RTE 100
0.004	0.004	INTERSECTION	LEFT	RTE 100
0.005	0.005	INTERSECTION	RIGHT	RTE 100
0.029	0.029	INTERSECTION	RIGHT	RTE 905G
0.061	0.061	CULVERT	N/A	
0.075	0.075	INTERSECTION	RIGHT	RTE 905F
0.104	0.104	INTERSECTION	RIGHT	RTE 905E
0.134	0.134	INTERSECTION	RIGHT	RTE 905D
0.188	0.188	INTERSECTION	RIGHT	RTE 905C
0.216	0.216	INTERSECTION	RIGHT	RTE 905B
0.236	0.247	CURB	RIGHT	
0.237	0.237	INTERSECTION	RIGHT	RTE 905A
0.248	0.248	CULVERT	N/A	
0.256	0.256	INTERSECTION	RIGHT	
0.327	0.360	CURB	LEFT	
0.327	0.363	CURB	RIGHT	
0.339	0.339	INTERSECTION	RIGHT	RTE 903A
0.341	0.341	INTERSECTION	LEFT	RTE 903B
0.365	0.365	INTERSECTION	LEFT	RTE 100
0.368	0.368	INTERSECTION	RIGHT	RTE 100
0.370	0.370			ROUTE ENDS AT RTE 100

LAMR: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0203 : STILLING BASIN ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT STATE HIGHWAY 1319
0.007	0.007	INTERSECTION	RIGHT	STATE HIGHWAY 1319
0.010	0.010	INTERSECTION	LEFT	STATE HIGHWAY 1319
0.033	0.148	PAVED DITCH	RIGHT	
0.042	0.150	PAVED DITCH	LEFT	
0.152	0.300	GUARDRAIL	LEFT	
0.200	0.292	GUARDRAIL	RIGHT	
0.314	0.314	CULVERT	N/A	
0.334	0.334	INTERSECTION	LEFT	UNPAVED NPS ROAD
0.357	0.357	INTERSECTION	RIGHT	UNPAVED NPS ROAD
0.450	0.450	CULVERT	N/A	
0.646	0.646	INTERSECTION	LEFT	UNPAVED NPS ROAD
0.757	0.757	INTERSECTION	RIGHT	RTE 919
0.826	0.826	INTERSECTION	RIGHT	RTE 919
0.977	0.983	CURB	RIGHT	
0.979	1.076	CURB	LEFT	
0.987	0.987	INTERSECTION	RIGHT	RTE 221
0.997	1.070	CURB	RIGHT	
1.019	1.019	INTERSECTION	RIGHT	RTE 918F
1.044	1.044	INTERSECTION	RIGHT	
1.070	1.070			ROUTE ENDS AT END

LAMR: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0204 : NORTH VIEW POINT ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT STATE HIGHWAY 1319
0.005	0.005	INTERSECTION	LEFT	STATE HIGHWAY 1319
0.005	0.005	INTERSECTION	RIGHT	STATE HIGHWAY 1319
0.094	0.094	INTERSECTION	RIGHT	UNPAVED NPS ROAD
0.205	0.205	INTERSECTION	RIGHT	UNPAVED NPS ROAD
0.317	0.317	INTERSECTION	LEFT	UNPAVED NPS ROAD
0.330	0.330			ROUTE ENDS AT RTE 921

LAMR: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0205 : BLUE WEST PICNIC ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT RTE 101
0.006	0.006	INTERSECTION	LEFT	RTE 101
0.006	0.006	INTERSECTION	RIGHT	RTE 101
0.140	0.140	INTERSECTION	RIGHT	UNPAVED NPS PARKING
0.183	0.183	INTERSECTION	RIGHT	UNPAVED NPS PARKING
0.252	0.252	INTERSECTION	RIGHT	UNPAVED NPS PARKING
0.299	0.299	INTERSECTION	RIGHT	UNPAVED NPS PARKING
0.302	0.302	INTERSECTION	RIGHT	UNPAVED NPS PARKING
0.337	0.337	INTERSECTION	RIGHT	
0.352	0.352	CULVERT	N/A	
0.371	0.371	INTERSECTION	RIGHT	UNPAVED NPS PARKING
0.480	0.480	INTERSECTION	RIGHT	UNPAVED NPS PARKING
0.539	0.539	INTERSECTION	RIGHT	UNPAVED NPS PARKING
0.613	0.613	INTERSECTION	RIGHT	RTE 921
0.700	0.700	CULVERT	N/A	
0.724	0.724	INTERSECTION	LEFT	RTE 101
0.730	0.730			ROUTE ENDS AT RTE 101
0.732	0.732	INTERSECTION	RIGHT	RTE 101

LAMR: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0217 : SANFORD YAKE CAMPGROUND LOOP

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT RTE 010
0.006	0.006	INTERSECTION	RIGHT	RTE 010
0.007	0.007	INTERSECTION	LEFT	RTE 010
0.084	0.084	CULVERT	N/A	
0.101	0.101	INTERSECTION	LEFT	RTE 217
0.127	0.127	INTERSECTION	RIGHT	UNPAVED NPS ROAD
0.225	0.225	INTERSECTION	RIGHT	UNPAVED NPS ROAD
0.255	0.255	INTERSECTION	RIGHT	UNPAVED NPS ROAD
0.302	0.302	INTERSECTION	RIGHT	RTE 915A
0.361	0.361	INTERSECTION	RIGHT	UNPAVED NPS PARKING
0.417	0.417	INTERSECTION	RIGHT	UNPAVED NPS PARKING
0.441	0.441	INTERSECTION	RIGHT	UNPAVED NPS PARKING
0.477	0.477	INTERSECTION	LEFT	RTE 915B
0.504	0.504	INTERSECTION	LEFT	RTE 914
0.560	0.560	INTERSECTION	LEFT	RTE 915C
0.599	0.599	CULVERT	N/A	
0.604	0.604	INTERSECTION	RIGHT	END OF LOOP
0.605	0.605	INTERSECTION	LEFT	END OF LOOP
0.610	0.610			ROUTE ENDS AT END OF LOOP

LAMR: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0219 : BUGBEE ACCESS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT NORTH BOUNDARY (BUGBEE DRIVE)
0.075	0.075	CULVERT	N/A	
0.169	0.216	GUARDRAIL	RIGHT	
0.228	0.228	CULVERT	N/A	
0.260	0.260	INTERSECTION	RIGHT	RTE 924
0.412	0.444	PULLOUT	LEFT	
0.475	0.475	INTERSECTION	RIGHT	UNPAVED NPS ROAD
0.530	0.530			ROUTE ENDS AT END

LAMR: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0221 : SPRING CANYON ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT RTE 203
0.004	0.004	INTERSECTION	LEFT	RTE 203
0.007	0.007	INTERSECTION	RIGHT	RTE 203
0.011	0.202	CURB	RIGHT	
0.044	0.158	CURB	LEFT	
0.068	0.068	INTERSECTION	LEFT	RTE 918E
0.161	0.161	INTERSECTION	LEFT	
0.168	0.204	CURB	LEFT	
0.180	0.180	INTERSECTION	LEFT	SPUR
0.210	0.210	INTERSECTION	LEFT	RTE 918D
0.282	0.282	INTERSECTION	LEFT	RTE 918C
0.311	0.506	CURB	RIGHT	
0.317	0.327	CURB	LEFT	
0.318	0.318	INTERSECTION	LEFT	
0.336	0.336	INTERSECTION	LEFT	SPUR
0.346	0.346	INTERSECTION	LEFT	RTE 918B
0.363	0.563	CURB	LEFT	
0.485	0.485	INTERSECTION	LEFT	RTE 918A
0.510	0.510	INTERSECTION	RIGHT	UNPAVED NPS ROAD
0.516	0.558	CURB	RIGHT	
0.550	0.550			ROUTE ENDS AT END OF LOOP
0.557	0.557	INTERSECTION	LEFT	END OF LOOP

LAMR: ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 0223 : HARBOR BAY PICNIC RD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.000	0.000			ROUTE BEGINS AT RTE 104
0.008	0.008	INTERSECTION	LEFT	
0.009	0.009	INTERSECTION	RIGHT	
0.014	0.014	INTERSECTION	LEFT	RTE 223
0.051	0.051	INTERSECTION	RIGHT	RTE 900A
0.068	0.081	PULLOUT	LEFT	
0.068	0.081	PULLOUT	RIGHT	
0.103	0.123	PULLOUT	RIGHT	
0.124	0.124	INTERSECTION	RIGHT	RTE 900B
0.140	0.140	INTERSECTION	RIGHT	
0.142	0.148	PULLOUT	LEFT	
0.156	0.156	INTERSECTION	RIGHT	
0.157	0.157	INTERSECTION	LEFT	
0.160	0.160			ROUTE ENDS AT RTE 104

APPENDIX A: GLOSSARY OF TERMS AND ABBREVIATIONS

TERM OR ABBREVIATION	DESCRIPTION OR DEFINITION
7540	Numeric Code for Lake Meredith National Recreation Area
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
LAMR	Alpha Code for Lake Meredith National Recreation Area
Lane Width	Distance from road centerline to fogline, or from centerline to edge-of-pavement when no fogline exists
MRR	Manually Rated Route
NA	Not Applicable
NC	Not Collected
Paved Width	Distance from edge-of-pavement to edge-of-pavement
PCR	Pavement Condition Rating (see Section 10)

Poor	Poor Rating with an index value of 60 or less
RCI	Roughness Condition Index
SADT	Seasonal Annual Daily Traffic. Average daily traffic for the total defined "season"
SCR	Surface Condition Rating (see Section 10)
Shoulder Condition Rating	Visual rating (Good, Poor) of the condition of shoulder. (see Section 10)
Shoulder Width	Distance from fogline to hinge point, or if no fogline, from edge-of-pavement to hinge point

APPENDIX B: DESCRIPTION OF RATING SYSTEM

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

Data is collected on the following distresses and conditions:

- **Alligator Cracking** - a series of interconnecting cracks resembling alligator skin or chicken wire, which can ocurr 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 Disitress 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 the 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_CLASS	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	XXXXXXXX	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	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
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	XXXXXXXXXX	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	XXXXXXXX	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%
VISI_FROM	999999 (millimiles)	Raw MP of first video frame showing feature	Contractor Post-processing	Database Processing	Untested
VISI_TO	999999 (millimiles)	Raw MP of last video frame showing feature	Contractor Post-processing	Database Processing	Untested

FIELD	FORMAT	EXPECTED VALUE	SOURCE	VALIDATION	EXPECTED ACCURACY
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	999.999999	Latitude coordinate	ARAN Data Collection	Automatic Output	See GPS Metadata sheet distributed with data
GPS_LON	-999.999999	Longitude coordinate	ARAN Data Collection	Automatic Output	See GPS Metadata sheet distributed with data
GPS_ELEV	99999.9	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	<*Park*>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_FLAG	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	XXXXXXXX	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%
VISI_FROM	999999 (millimiles)	Raw MP of first video frame in section	Contractor Post-processing	Database Processing	Untested
VISI_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 3 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

lamr_seg

Metadata also available as

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator: The TSR Group
Publication_Date: 2005
Title: lamr_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: -101.729774
East_Bounding_Coordinate: -101.543755
North_Bounding_Coordinate: 35.731274
South_Bounding_Coordinate: 35.574348
Keywords:
Theme:
Theme_Keyword_Thesaurus: LAMR
Theme_Keyword: LAMR

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: 128

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: lamr_seg
Attribute:
Attribute_Label: FID
Attribute_Definition: Internal feature number.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain:
Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Shape
Attribute_Definition: Feature geometry.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain: Coordinates defining the features.
Attribute:
Attribute_Label: FNODE_
Attribute_Definition: Length of feature
Attribute_Definition_Source: ESRI
Attribute:
Attribute_Label: TNODE_
Attribute:
Attribute_Label: LPOLY_
Attribute_Definition: Route number
Attribute_Definition_Source: Route ID Meeting
Attribute:
Attribute_Label: RPOLY_
Attribute_Definition: Collected route length
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: LENGTH
Attribute_Definition:
Numeric PCR definition. Average PCR value based on programatic averaging of adjacent segments.
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: 0
Range_Domain_Maximum: 100
Attribute:
Attribute_Label: LAMR_SEG_
Attribute_Definition: Verbal PCR definition based on value in PCRAV field
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: POOR

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

Attribute:
Attribute_Label: LAMR_SEG_I
Attribute_Definition: Indicates whether feature has been edited for graphic purposes.
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 1
Enumerated_Domain_Value_Definition: Edit has been made to feature for graphic purposes
Enumerated_Domain:
Enumerated_Domain_Value: 0
Enumerated_Domain_Value_Definition: No edit made to feature.

Attribute:
Attribute_Label: ID

Attribute:
Attribute_Label: RTE_NO

Attribute:
Attribute_Label: BMP

Attribute:
Attribute_Label: EMP

Attribute:
Attribute_Label: PCR

Attribute:
Attribute_Label: PCR_RATE

Attribute:
Attribute_Label: RT_LENGTH

Attribute:
Attribute_Label: PCRMI

Attribute:
Attribute_Label: PCR_RATEMI

Attribute:
Attribute_Label: PCR_RATEAV

Attribute:
Attribute_Label: PCRAV

Attribute:
Attribute_Label: TSR_EDIT

Distribution_Information:
Resource_Description: Downloadable Data
Standard_Order_Process:

Digital_Form:
Digital_Transfer_Information:
Transfer_Size: 0.016

Metadata_Reference_Information:
Metadata_Date: 20050908
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 Thu Sep 08 13:44:13 2005

lamr_mi_pt

Metadata also available as

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator: The TSR Group
Publication_Date: 2005
Title: lamr_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: -101.725159
East_Bounding_Coordinate: -101.545876
North_Bounding_Coordinate: 35.731274
South_Bounding_Coordinate: 35.574726
Keywords:
Theme:
Theme_Keyword_Thesaurus: LAMR
Theme_Keyword: LAMR
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: 27

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: lamr_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 shouler 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: Rigth 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_FLA
Attribute_Definition: Flag indicating presence of bridge in interval
Attribute_Definition_Source: ARAN Data Collection

Attribute:
Attribute_Label: CONSTR_FLA
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: 20050908
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 Thu Sep 08 13:44:51 2005

lamr_nonnps

Metadata also available as

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator: The TSR Group
Publication_Date: 2005
Title: lamr_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: -101.609490
East_Bounding_Coordinate: -101.580876
North_Bounding_Coordinate: 35.645776
South_Bounding_Coordinate: 35.635352
Keywords:
Theme:
Theme_Keyword_Thesaurus: LAMR
Theme_Keyword: LAMR
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: 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: lamr_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: 20050908
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 Thu Sep 08 13:44:32 2005

lamr_pkg_03_map

Metadata also available as

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator: Eastern Federal Lands Highway Division
Publication_Date: Unknown
Title: lamr_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: 3/10/2003
Currentness_Reference: ground condition
Status:
Progress: Complete
Maintenance_and_Update_Frequency: As per RIP cycle
Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -101.715279
East_Bounding_Coordinate: -101.548002
North_Bounding_Coordinate: 35.728933
South_Bounding_Coordinate: 35.579439
Keywords:
Theme:
Theme_Keyword_Thesaurus: LAMR
Theme_Keyword: LAMR
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: 46

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: lamr_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: 20050908
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 Thu Sep 08 13:45:32 2005

lamr_pkg_03

Metadata also available as

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator: Eastern Federal Lands Highway Division
Publication_Date: Unknown
Title: lamr_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: 3/10/2003
Currentness_Reference: ground condition
Status:
Progress: Complete
Maintenance_and_Update_Frequency: As per RIP cycle
Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -101.715289
East_Bounding_Coordinate: -101.548007
North_Bounding_Coordinate: 35.728933
South_Bounding_Coordinate: 35.579439
Keywords:
Theme:
Theme_Keyword_Thesaurus: LAMR
Theme_Keyword: LAMR
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: 46

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: lamr_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: 20050908
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 Thu Sep 08 13:45:51 2005

lamr_mi

Metadata also available as

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator: The TSR Group
Publication_Date: 2005
Title: lamr_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: -101.729774
East_Bounding_Coordinate: -101.543747
North_Bounding_Coordinate: 35.731274
South_Bounding_Coordinate: 35.574341
Keywords:
Theme:
Theme_Keyword_Thesaurus: LAMR
Theme_Keyword: LAMR

Access_Constraints: None
Use_Constraints: Redistribution meeds 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: 23

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: lamr_mi
Attribute:
Attribute_Label: FID
Attribute_Definition: Internal feature number.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain:
Sequential unique whole numbers that are automatically generated.
Attribute:
Attribute_Label: Shape
Attribute_Definition: Feature geometry.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain: Coordinates defining the features.
Attribute:
Attribute_Label: FNODE_
Attribute_Definition: Length of feature
Attribute_Definition_Source: ESRI
Attribute:
Attribute_Label: TNODE_
Attribute:
Attribute_Label: LPOLY_
Attribute_Definition: Route number
Attribute_Definition_Source: Route ID Meeting
Attribute:
Attribute_Label: RPOLY_
Attribute_Definition: Collected route length
Attribute_Definition_Source: ARAN Data Collection
Attribute:
Attribute_Label: LENGTH
Attribute_Definition: Numeric PCR definition
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: 0
Range_Domain_Maximum: 100
Attribute:
Attribute_Label: LAMR_MI_
Attribute_Definition: Verbal PCR definition
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: POOR
Enumerated_Domain_Value_Definition: PCR value <= 60
Enumerated_Domain:

Enumerated_Domain_Value: FAIR
Enumerated_Domain_Value_Definition: PCR value 61-84
Enumerated_Domain:
Enumerated_Domain_Value: GOOD
Enumerated_Domain_Value_Definition: PCR value 85-94
Enumerated_Domain:
Enumerated_Domain_Value: EXCELLENT
Enumerated_Domain_Value_Definition: PCR value 95-100
Attribute:
Attribute_Label: LAMR_MI_ID
Attribute_Definition: Indicates whether feature has been edited for graphic purposes.
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 1
Enumerated_Domain_Value_Definition: Edit has been made to feature for graphic purposes
Enumerated_Domain:
Enumerated_Domain_Value: 0
Enumerated_Domain_Value_Definition: No edit made to feature.
Attribute:
Attribute_Label: ID
Attribute:
Attribute_Label: RTE_NO
Attribute:
Attribute_Label: BMP
Attribute:
Attribute_Label: EMP
Attribute:
Attribute_Label: PCR
Attribute:
Attribute_Label: PCR_RATE
Attribute:
Attribute_Label: RT_LENGTH
Attribute:
Attribute_Label: PCRMI
Attribute:
Attribute_Label: PCR_RATEMI
Attribute:
Attribute_Label: PCR_RATEAV
Attribute:
Attribute_Label: PCRAV
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: 20050908
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

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