



# The Road Inventory of North Cascades National Park NOCA - 9470



## Road Inventory Program

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



# North Cascades National Park in Washington





## TABLE OF CONTENTS

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

## INTRODUCTION

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

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

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

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

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

In 1998, the Transportation Equity Act for the 21<sup>st</sup> Century (TEA-21) amended Title 23 U.S.C., and inserted Section 204(a)(6) which requires the Federal Highway Administration and the National Park Service, to develop, by rule, a Pavement Management System (PMS) for the park roads and parkways serving the National Park System. As a result of the requirements in TEA-21, the NPS and the FHWA are in the process of developing a PMS. The PMS will assist the decision-makers in effectively spending limited PRP Program funds. The PMS will provide information for planning and programming road maintenance, rehabilitation, and reconstruction activities. RIP data will provide the basic information for this system.

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

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

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

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

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

FHWA RIP Coordinator:

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# North Cascades National Park Summaries

## Overall Park Mileage Summary

PARK TOTAL SUMMARY ITEMS	TOTAL	DATE
Paved ARAN Driven Route Miles	9.77	5/17/2003
Unpaved Estimated Route Miles	37.13	5/17/2003
Paved ARAN and Unpaved Route Miles	46.90	
Paved ARAN Driven Lane Miles	16.37	5/17/2003
Paved MRR Lane Miles	1.64	5/17/2003
Parking Lot Lane Miles	6.28	5/17/2003
Total Paved Lane Miles	24.29	

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)

## North Cascades National Park Summaries

### Cost to Improve to "Excellent" Condition

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

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

Existing Condition	Existing Miles	Estimated Cost to Improve
Excellent	0.51	\$15,300
Good	1.51	\$166,100
Fair	5.57	\$3,119,200
Poor	2.18	\$3,357,200
<b>Totals</b>	<b>9.77</b>	<b>\$6,657,800</b>

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

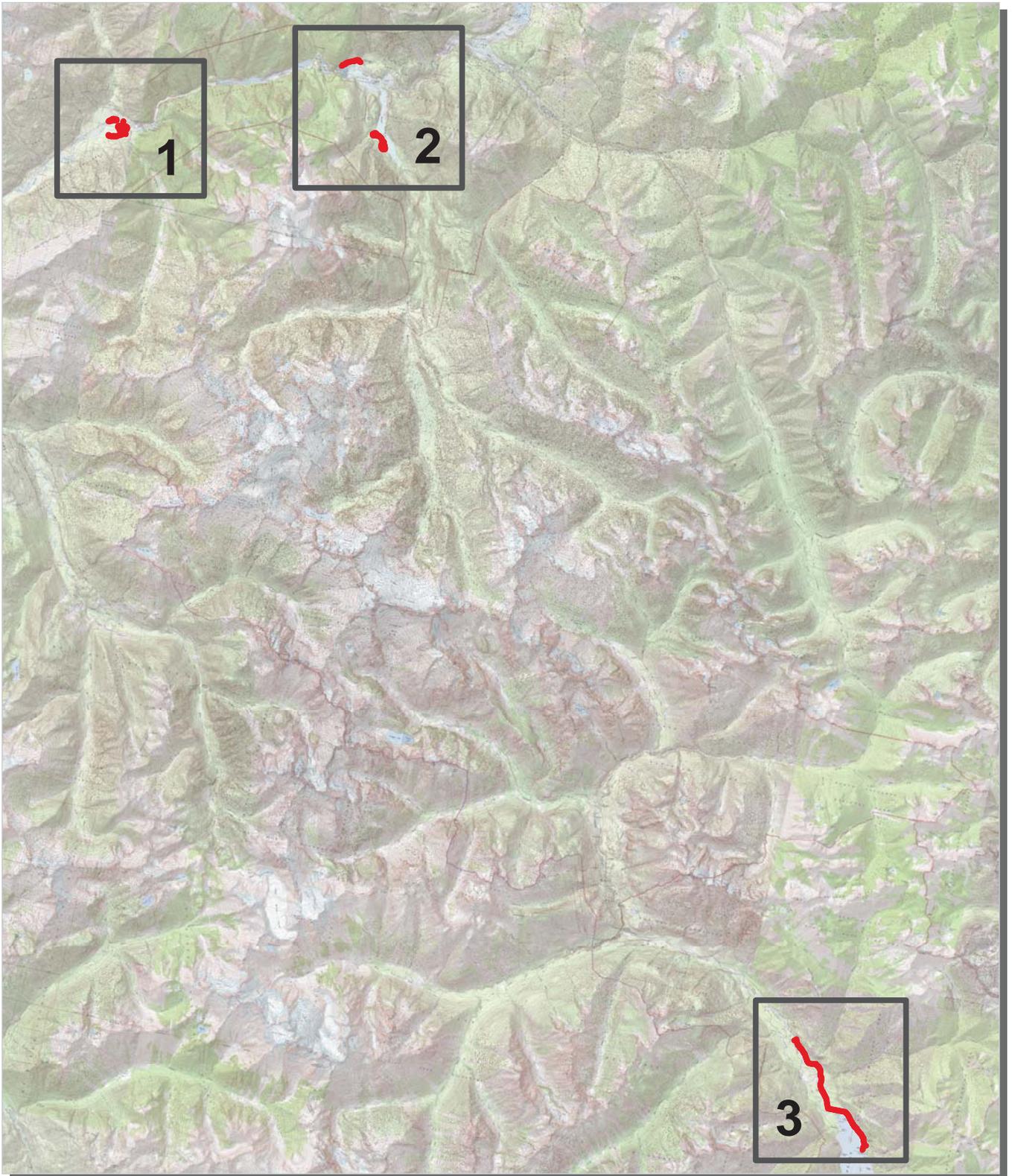
These numbers are for preliminary planning purposes only and should not be used for project level proposals. For park planning level analysis, apply your park multiplier for more accurate regional costs.

# North Cascades National Park Summaries

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

F.C.	Pavement Condition Rating								TOTAL MILES
	Poor (<=60)		Fair (61-84)		Good (85-94)		Excellent (95-100)		
	MILES	%	MILES	%	MILES	%	MILES	%	
1	0.53	5.42%	3.04	31.12%	0.68	6.96%	0.10	1.02%	4.35
2	0.26	2.66%	0.32	3.28%	0.32	3.28%	0.25	2.56%	1.15
3	1.27	13.00%	2.20	22.52%	0.51	5.22%	0.14	1.43%	4.12
4									
5	0.12	1.23%	0.01	0.10%			0.02	0.20%	0.15
6									
7									
8									
<b>Totals</b>	<b>2.18</b>	<b>22.31%</b>	<b>5.57</b>	<b>57.01%</b>	<b>1.51</b>	<b>15.46%</b>	<b>0.51</b>	<b>5.22%</b>	<b>9.77</b>

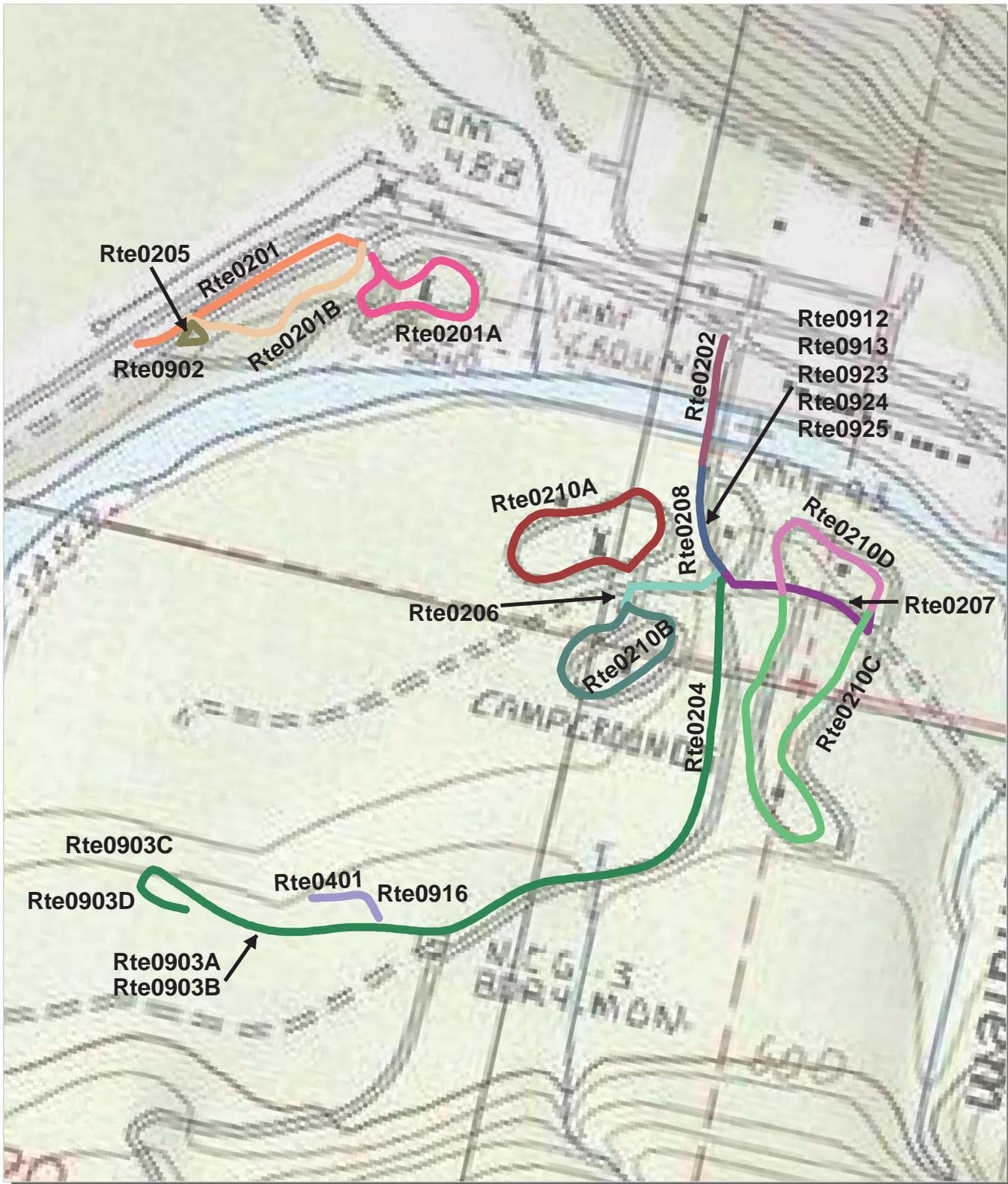
# North Cascades National Park Route Location Key Map



 Park Owned Routes



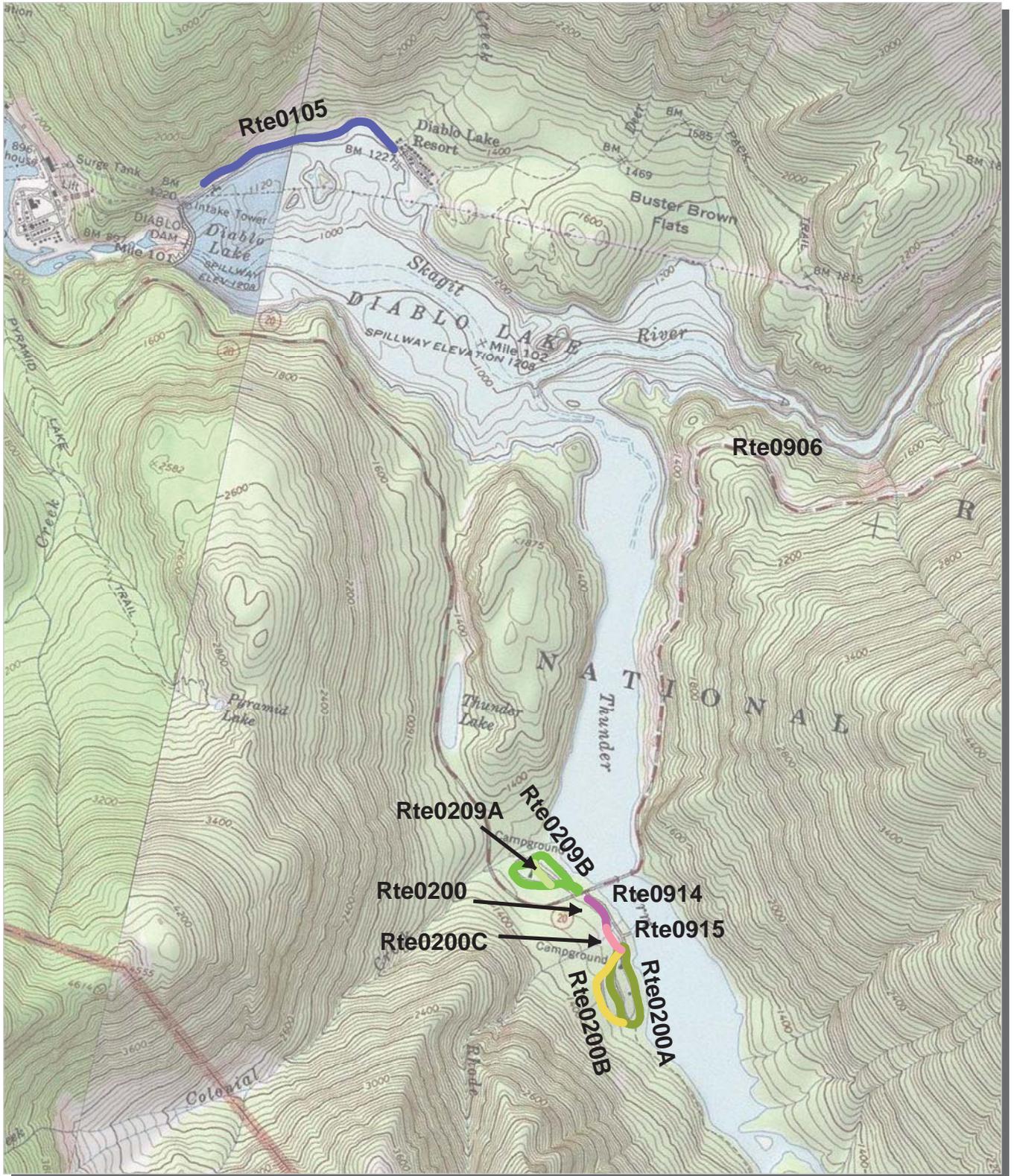
# North Cascades National Park Route Location Map Area Map 1



Unique colors used to differentiate routes



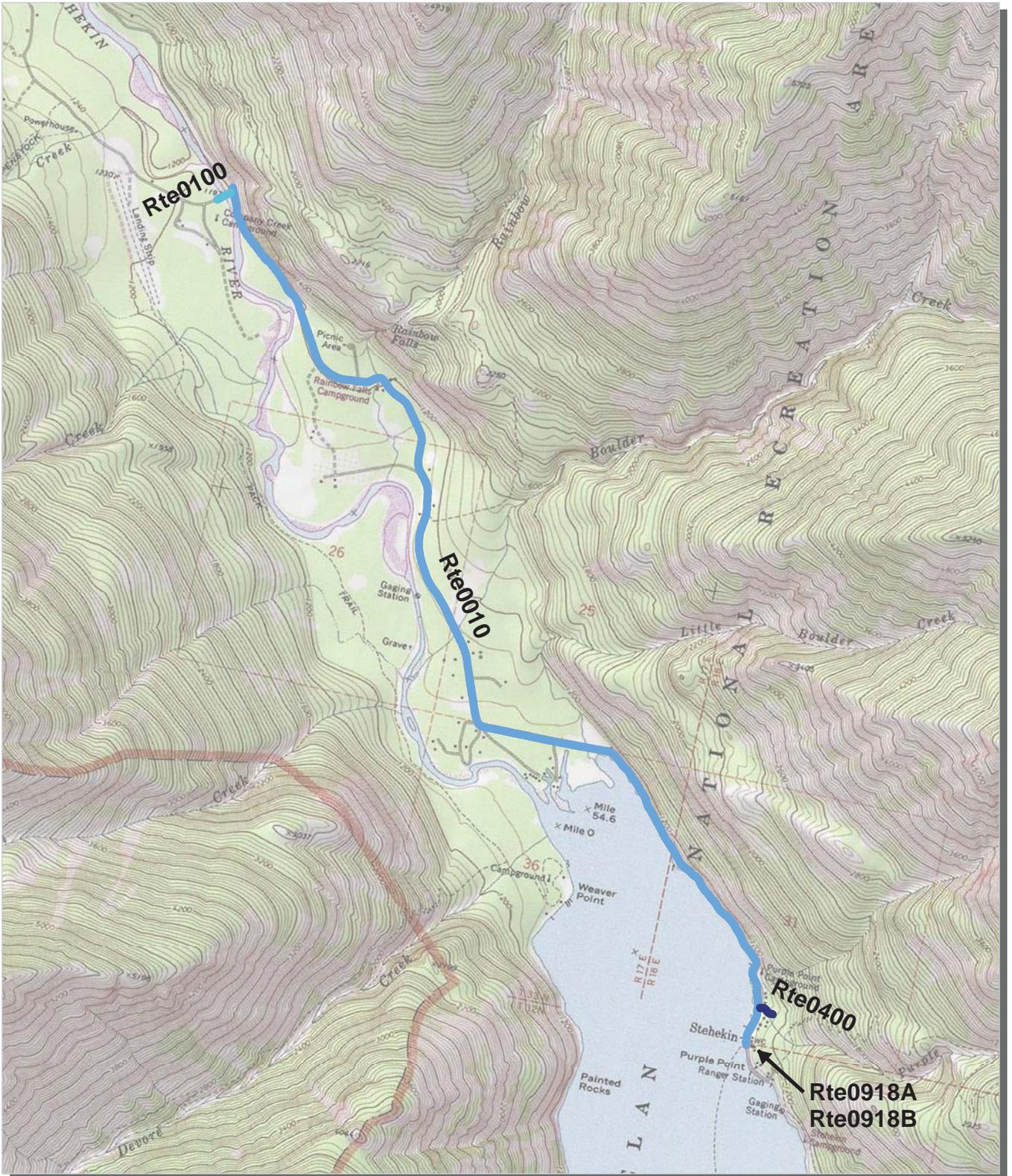
# North Cascades National Park Route Location Map Area Map 2



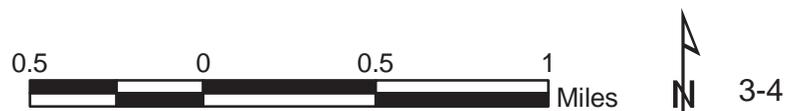
Unique colors used to differentiate routes



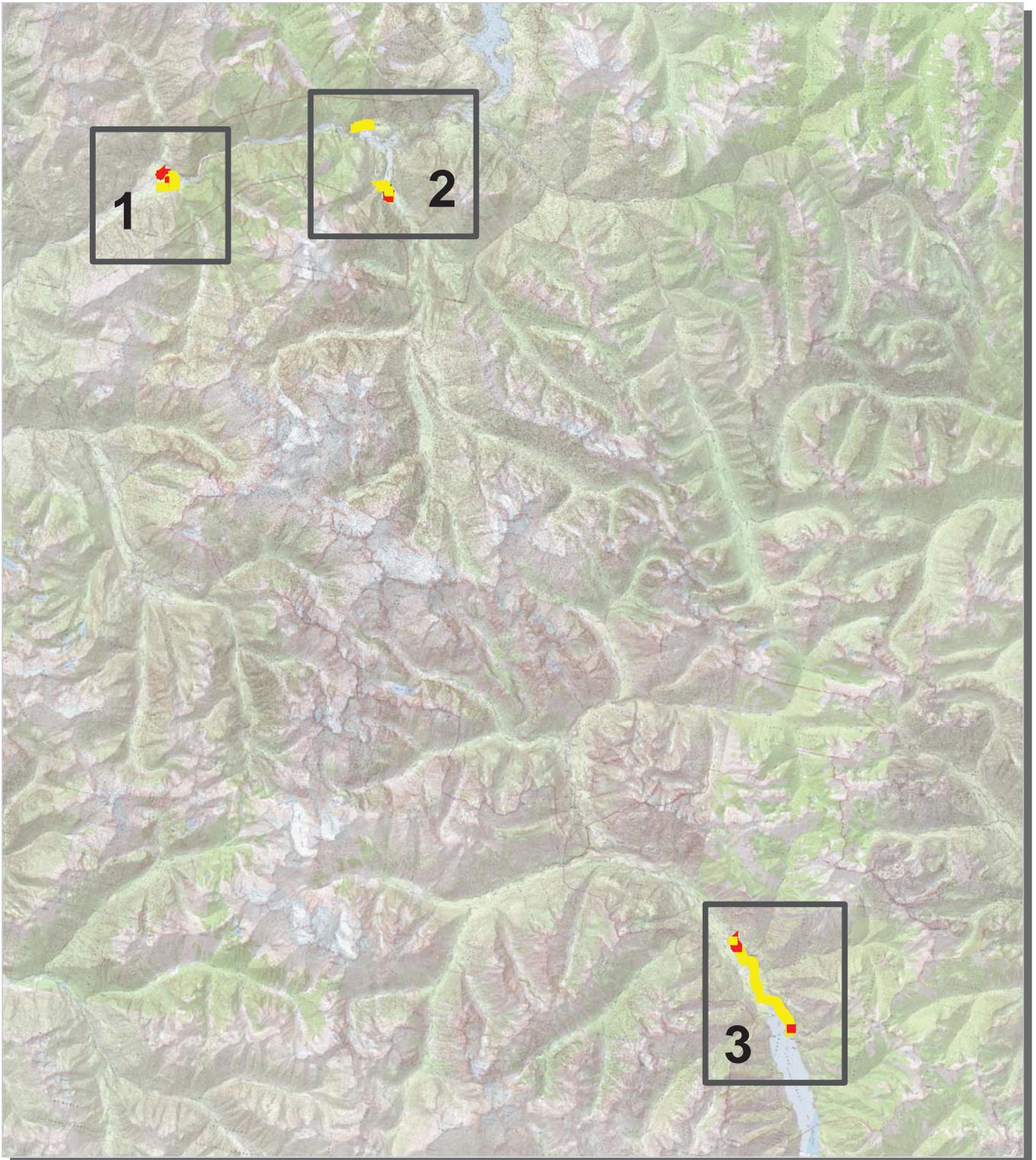
# North Cascades National Park Route Location Map Area Map 3



Unique colors used to differentiate routes



# North Cascades National Park Route Condition Key Map PCR - Mile by Mile

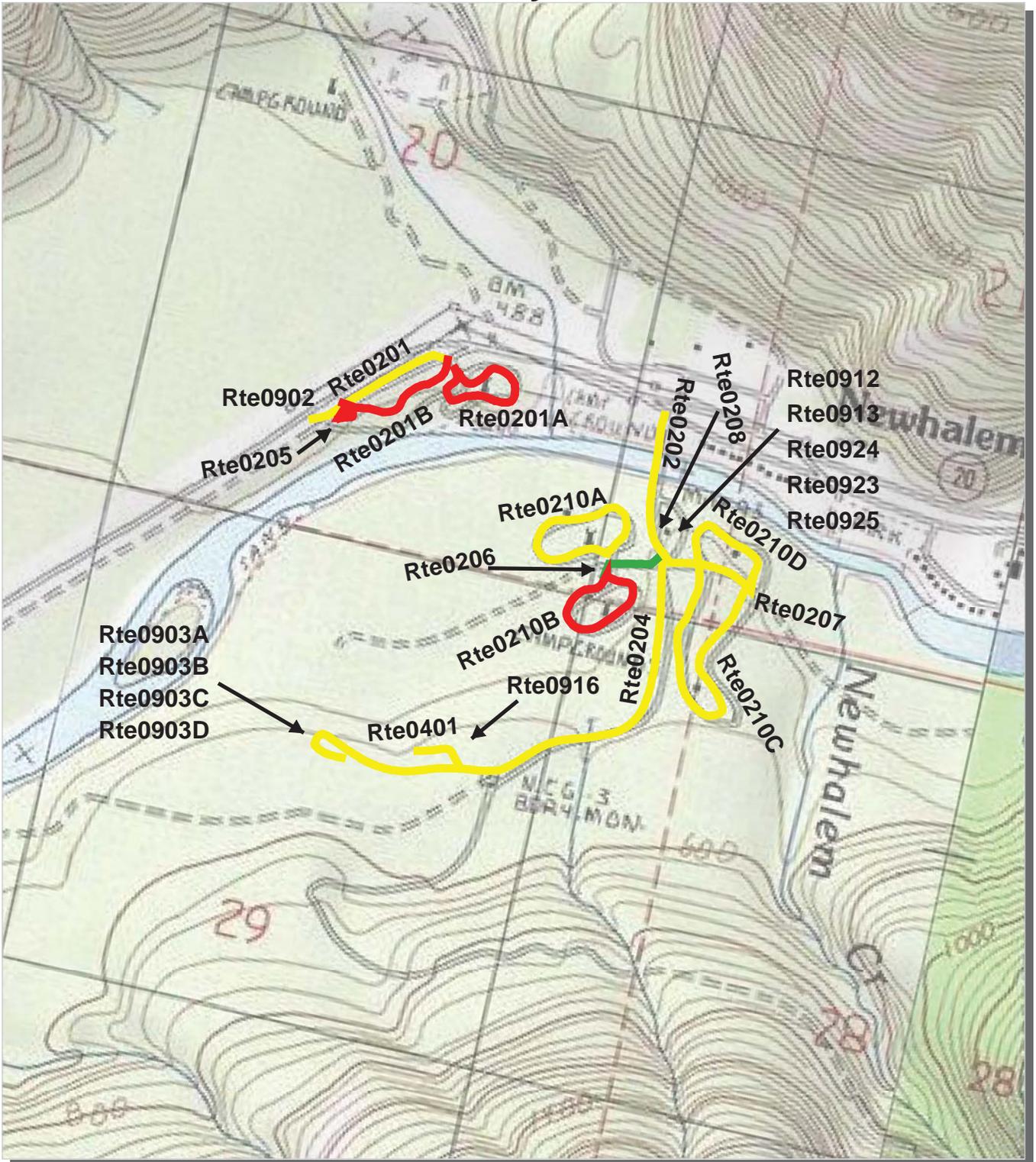


PCR	Poor	Fair	Good	Excellent
	( $\leq 60$ )	(61 - 84)	(85 - 94)	(95 - 100)

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



# North Cascades National Park Route Condition Area Map 1 PCR - Mile by Mile

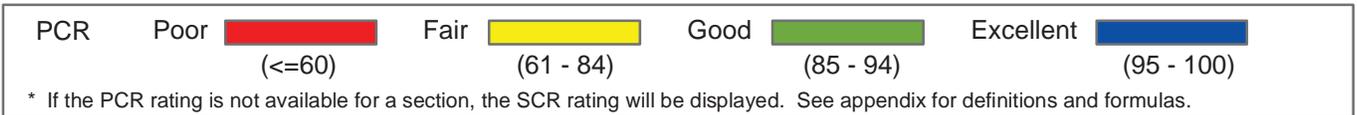
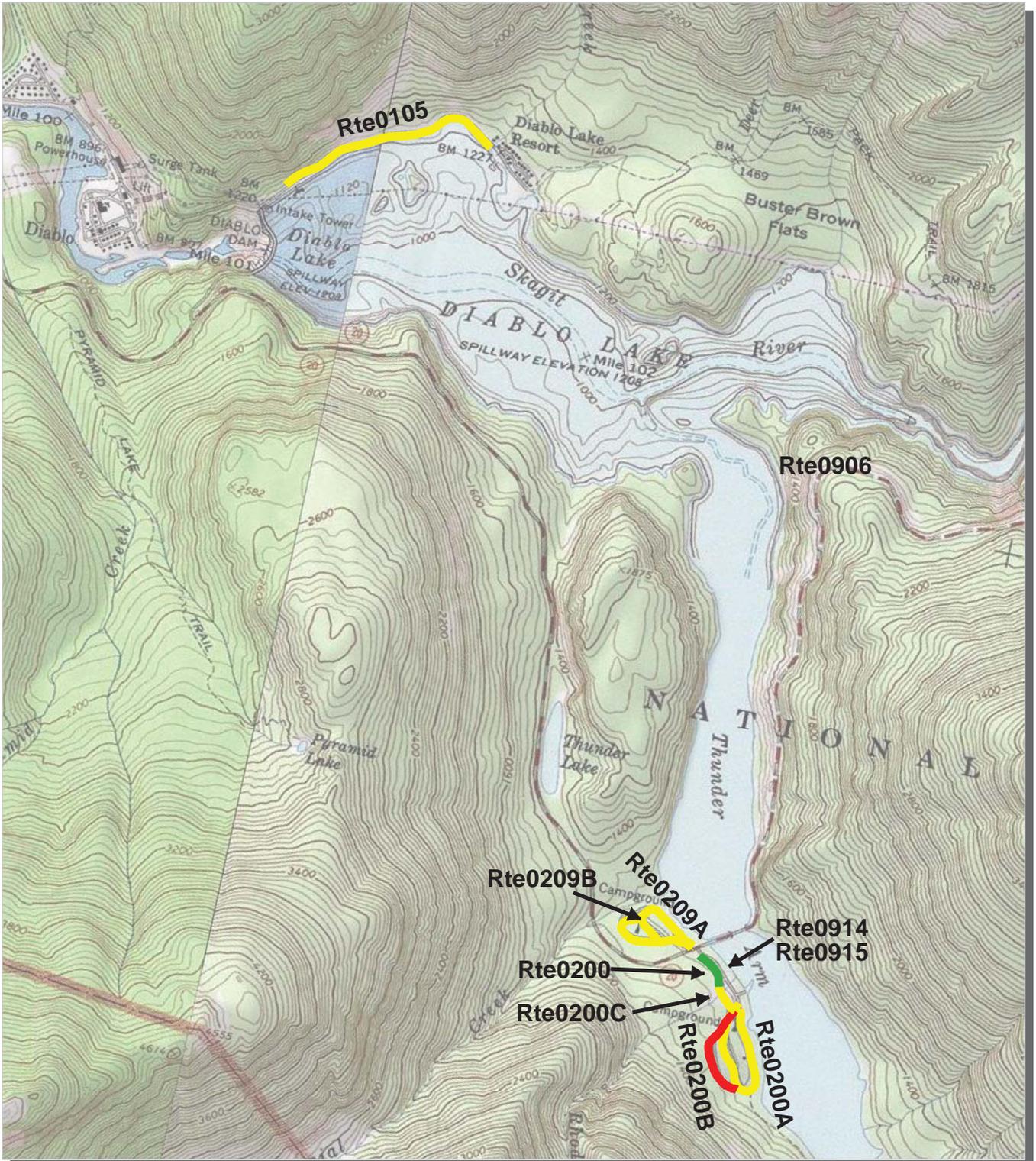


PCR	Poor	Fair	Good	Excellent
	(≤60)	(61 - 84)	(85 - 94)	(95 - 100)

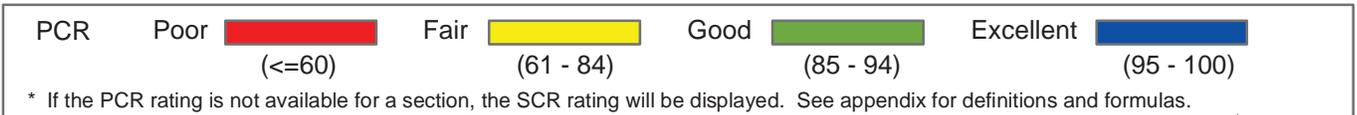
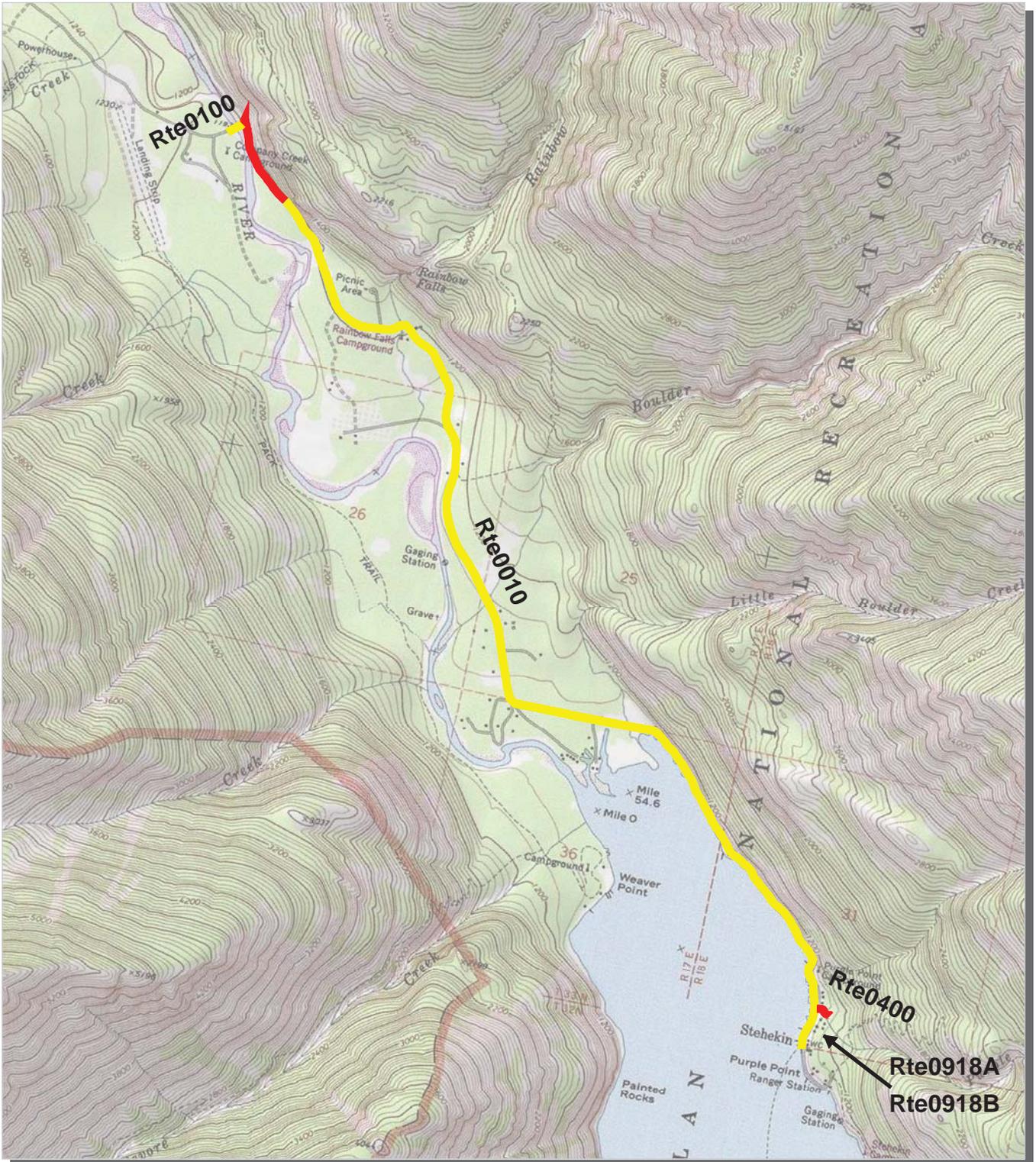
\* If the PCR rating is not available for a section, the SCR rating will be displayed. See appendix for definitions and formulas.



# North Cascades National Park Route Condition Area Map 2 PCR - Mile by Mile



# North Cascades National Park Route Condition Area Map 3 PCR - Mile by Mile



# NPS/RIP Route ID Report

(Numerical By Route #)

Shading Color Key:

Red text denotes  
approx. mileage

White = Paved Routes, ARAN Driven

Yellow = Unpaved Routes, ARAN not Driven

Blue = All Paved Parking Areas

Grey = Paved Routes, ARAN not Driven

Red =

Green = All Unpaved Parking Areas

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

Purple =

## NOCA

### North Cascades National Park

Rte. #	FMSS Asset #	Route Name	Route Description		Paved Miles	Un-Paved Miles	Rte. Lgth	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type
			From	To							
0010	18118	STEHEKIN VALLEY ROAD	FROM ROUTES 0918A & B	TO COTTONWOOD CAMP	4.35	17.19	21.54	1	2	0	AS
0100	60333	COMPANY CREEK ROAD	FROM ROUTE 0010	TO END	0.07	2.47	2.54	2	2	0	AS
0101	60330	CASCADE PASS ROAD	FROM WEST PARK BOUNDARY	TO END	1.21	3.94	5.15	2	1	95,515	AS
0102	17625	HOZOMEEN ROAD	FROM US/CANADA BORDER	TO END	0.00	2.28	2.28	2	1	0	OT
0103	17895	BUCKNER ORCHARD ACCESS ROAD	FROM ROUTE 0010	TO END	0.00	0.40	0.40	2	1	0	OT
0104	18139	RAINBOW FALLS ACCESS ROAD	FROM ROUTE 0010	TO END OF LOOP	0.00	0.10	0.10	2	1	0	OT
0105	46862	ENVIRONMENTAL LEARNING CENTER ACCESS ROAD	FROM BARDGE LANDING	TO END	0.66	0.00	0.66	2	2	0	AS
0200	28520	COLONIAL CREEK CAMPGROUND ACCESS SOUTH	FROM STATE HIGHWAY 20	TO ROUTE 0200C	0.11	0.00	0.11	2	2	0	AS
0200A	60409	COLONIAL CREEK CAMPGROUND LOOP A	FROM ROUTE 0914	TO ROUTE 0914	0.53	0.00	0.53	3	1	0	AS
0200B	60410	COLONIAL CREEK CAMPGROUND LOOP B	FROM ROUTE 0200A	TO ROUTE 0200A	0.25	0.00	0.25	3	1	0	AS
0200C		DUMP STATION ACCESS ROAD	FROM ROUTE 0200	TO ROUTE 0200A	0.09	0.00	0.09	3	2	0	AS
0201	44086	GOODELL CREEK CAMPGROUND ACCESS ROAD	FROM STATE HIGHWAY 20	TO ROUTE 0201B	0.20	0.00	0.20	2	2	0	AS
0201A	60417	GOODELL CREEK CAMPGROUND LOOP A	FROM ROUTE 0201B	TO ROUTE 0201B	0.27	0.00	0.27	3	2	0	AS
0201B	60416	GOODELL CREEK CAMPGROUND LOOP B	FROM ROUTE 0201	TO ROUTE 0205	0.18	0.00	0.18	3	2	0	AS
0202	17457	NEWHALEM CREEK CAMPGROUND ACCESS ROAD	FROM STATE HIGHWAY 20	TO ROUTE 0208	0.11	0.00	0.11	2	2	0	AS
0203	17482	THORNTON LAKES ROAD	FROM STATE HIGHWAY 20	TO TRAILHEAD	0.00	4.88	4.88	3	1	0	GR
0204	46858	NORTH CASCADES VISITOR CENTER ACCESS ROAD	FROM ROUTE 0208	TO ROUTE 0903	0.70	0.00	0.70	3	2	0	AS
0205	60521	RAFT LAUNCH LOOP	FROM ROUTE 0201	TO ROUTE 0201	0.05	0.00	0.05	3	1	0	AS
0206	60564	NEWHALEM CREEK CAMPGROUND ACCESS TO LOOPS A & B	FROM ROUTE 0204	TO END OF PAVEMENT	0.07	0.00	0.07	3	2	0	AS
0207	60565	NEWHALEM CREEK CAMPGROUND ACCESS TO LOOPS C & D	FROM ROUTE 0204	TO END	0.13	0.00	0.13	3	2	0	AS
0208	60570	NEWHALEM CREEK KIOSK/DUMP STATION	FROM ROUTE 0202	TO ROUTE 0204	0.10	0.00	0.10	3	1	0	AS
0209A	60411	COLONIAL CREEK CAMPGROUND NORTH LOOP A	FROM STATE HIGHWAY 20	TO STATE HIGHWAY 20	0.49	0.00	0.49	3	1	0	AS
0209B	60412	COLONIAL CREEK CAMPGROUND NORTH LOOP B	FROM ROUTE 0209A	TO ROUTE 0209A	0.10	0.00	0.10	3	1	0	AS
0210A	60566	NEWHALEM CREEK CAMPGROUND LOOP A	FROM ROUTE 0206	TO ROUTE 0206	0.32	0.00	0.32	3	1	0	AS
0210B	60567	NEWHALEM CREEK CAMPGROUND LOOP B	FROM ROUTE 0206	TO ROUTE 0206	0.25	0.00	0.25	3	1	0	AS

# NPS/RIP Route ID Report

(Numerical By Route #)

Shading Color Key:  
Red text denotes approx. mileage

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

## NOCA

North Cascades National Park

Rte. #	FMSS Asset #	Route Name	Route Description		Paved Miles	Un-Paved Miles	Rte. Lgth	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type
			From	To							
0210C	60568	NEWHALEM CREEK CAMPGROUND LOOP C	FROM ROUTE 0207	TO ROUTE 0207	0.42	0.00	0.42	3	1	0	AS
0210D	60569	NEWHALEM CREEK GROUP CAMPGROUND LOOP D	FROM ROUTE 0207	TO ROUTE 0207	0.17	0.00	0.17	3	1	0	AS
0211	46867	UPPER GOODELL CREEK GROUP CAMPGROUND ACCESS ROAD	FROM NORTH NEWHALEM CREEK ROAD	TO END	0.00	0.70	0.70	2	1	0	OT
0212	46866	LOWER GOODELL CREEK GROUP CAMPGROUND ACCESS ROAD	FROM STATE HIGHWAY 20	TO END	0.00	0.30	0.30	2	1	0	OT
0213	60414	COPPER CREEK ROAD	FROM STATE HIGHWAY 20	TO RIVER	0.00	0.29	0.29	3	1	0	OT
0214	60325	HARLEQUIN CAMPGROUND	FROM ROUTE 0100	TO END	0.00	0.20	0.20	4	1	0	OT
0215	46871	NEWHALEM TRAILHEAD ROAD SOUTH	FROM ROUTE 0204	TO TRAILHEAD	0.00	1.40	1.40	3	1	0	GR
0216	46868	NEWHALEM FIRING RANGE ROAD	FROM STATE HIGHWAY 20	TO END	0.00	0.33	0.33	4	1	0	GR
0400	60548	STEHEKIN SERVICE ROAD	FROM ROUTE 0010	TO END	0.08	0.00	0.08	5	1	0	AS
0401	28521	NORTH CASCADES VISITOR CENTER SERVICE ROAD	FROM ROUTE 0204	TO ROUTE 0916	0.07	0.00	0.07	5	1	0	AS
0402	17787	GOLDENWEST ACCESS ROAD	FROM ROUTE 0918	TO FIRE CACHE	0.00	0.80	0.80	5	1	0	OT
0403	60522	RAINBOW PIT ACCESS ROAD	FROM ROUTE 0010	TO END OF LOOP	0.00	0.10	0.10	5	1	0	OT
0404	60343	AIRPORT, BONEYARD & MAINTENANCE ACCESS LOOP	FROM ROUTE 0405	TO ROUTE 0100	0.00	0.70	0.70	5	1	0	OT
0405	60347	COMPANY CREEK GRAVEL PIT ACCESS ROAD	FROM ROUTE 0100	TO END	0.00	0.50	0.50	5	1	0	OT
0406	60348	MAINTENANCE YARD ACCESS ROAD	FROM ROUTE 0100	TO END OF LOOP	0.00	0.20	0.20	5	1	0	OT
0407	17439	NEWHALEM GRAVEL STORAGE ROAD	FROM ROUTE 0211	TO END OF LOOP	0.00	0.30	0.30	5	1	0	GR
0408		STEHEKIN RANGER STATION REAR ACCESS ROAD	FROM ROUTE 0400	TO ROUTE 0917	0.00	0.05	0.05	5	1	0	OT
0900A	16690	MARBLEMOUNT ADMINISTRATIVE SITE A	FROM RANGER STATION ROAD	TO RANGER STATION ROAD	0.00	0.00	0.00	9		59,671	AS
0900B	60418	MARBLEMOUNT ADMINISTRATIVE SITE B	FROM RANGER STATION ROAD	TO RANGER STATION ROAD	0.00	0.00	0.00	9		11,939	AS
0901	60552	WEST ENTRANCE SIGN PARKING	FROM STATE HIGHWAY 20	TO STATE HIGHWAY 20	0.00	0.00	0.00	9		5,708	AS
0902	60518	RAFT LAUNCH PARKING	FROM ROUTE 0201	TO PARKING	0.00	0.00	0.00	9		2,327	AS
0903A	17427	NORTH CASCADES VISITOR CENTER PARKING A	FROM ROUTE 0204	TO PARKING	0.00	0.00	0.00	9		4,570	AS

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## NOCA

### North Cascades National Park

Rte. #	FMSS Asset #	Route Name	Route Description		Paved Miles	Un-Paved Miles	Rte. Lgth	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type
			From	To							
0903B	60510	NORTH CASCADES VISITOR CENTER PARKING B	FROM ROUTE 0204	TO PARKING	0.00	0.00	0.00	9		4,668	AS
0903C	60512	NORTH CASCADES VISITOR CENTER PARKING C	FROM ROUTE 0204	TO PARKING	0.00	0.00	0.00	9		2,715	AS
0903D	60514	NORTH CASCADES VISITOR CENTER PARKING D	FROM ROUTE 0204	TO ROUTE 0204	0.00	0.00	0.00	9		8,178	AS
0904	43978	GORGE CREEK OVERLOOK TRAILHEAD PARKING	FROM STATE HIGHWAY 20 AT MILEPOST 123.2 ON RIGHT	TO STATE HIGHWAY 20	0.00	0.00	0.00	9		28,842	AS
0905	60402	GORGE CREEK PHOTO-OP PARKING	FROM STATE HIGHWAY 20 AT MILEPOST 123.2 ON RIGHT	TO STATE HIGHWAY 20	0.00	0.00	0.00	9		12,545	AS
0906	46856	DIABLO LAKE OVERLOOK	FROM STATE HIGHWAY 20 AT MILEPOST 131.5 ON LEFT	TO PARKING	0.00	0.00	0.00	9		58,071	AS
0907	17541	INTERPRETIVE PULLOUT	FROM STATE HIGHWAY 20 AT MILEPOST 133	TO PARKING	0.00	0.00	0.00	9		17,165	AS
0908	17561	ROSS DAM TRAILHEAD PARKING	FROM STATE HIGHWAY 20 AT MILEPOST 134.25 ON LEFT	TO PARKING	0.00	0.00	0.00	9		11,766	AS
0909	38579	HAPPY CREEK NATURE TRAIL PARKING	FROM STATE HIGHWAY 20 AT MILEPOST 134 ON RIGHT	TO PARKING	0.00	0.00	0.00	9		9,726	AS
0910A	17563	ROSS LAKE OVERLOOK A	FROM STATE HIGHWAY 20 AT MILEPOST 135.5 ON LEFT	TO PARKING	0.00	0.00	0.00	9		9,586	AS
0910B	60523	ROSS LAKE OVERLOOK B	FROM STATE HIGHWAY 20 AT MILEPOST 135.5 ON LEFT	TO PARKING	0.00	0.00	0.00	9		4,684	AS
0911	60358	EAST ENTRANCE SIGN PARKING	FROM STATE HIGHWAY 20	TO PARKING	0.00	0.00	0.00	9		44,585	OT
0912	60419	NEWHALEM CREEK REGISTRATION PARKING	FROM ROUTE 0208	TO PARKING	0.00	0.00	0.00	9		901	AS
0913	60562	NEWHALEM CREEK DUMP STATION	FROM ROUTE 0208	TO ROUTE 0208	0.00	0.00	0.00	9		5,129	AS
0914	60407	COLONIAL CREEK CAMPGROUND ACCESS PARKING	FROM ROUTE 0200	TO PARKING	0.00	0.00	0.00	9		81,496	AS
0915	60408	COLONIAL CREEK CAMPGROUND DUMPSTATION	FROM ROUTE 0200	TO ROUTE 0200	0.00	0.00	0.00	9		9,364	AS
0916	60516	NORTH CASCADES VISITOR CENTER SERVICE PARKING	FROM ROUTE 0401	TO PARKING	0.00	0.00	0.00	9		2,520	AS
0917	60528	STEHEKIN RANGER STATION REAR PARKING	FROM ROUTE 0401	TO PARKING	0.00	0.00	0.00	9		800	OT
0918A	17812	STEHEKIN BOAT LANDING PARKING A	FROM ROUTE 0010	TO PARKING	0.00	0.00	0.00	9		4,661	OC
0918B	46865	STEHEKIN BOAT LANDING PARKING B	FROM ROUTE 0010	TO PARKING	0.00	0.00	0.00	9		1,984	OC
0919	60540	THORNTON LAKES TRAILHEAD PARKING	FROM ROUTE 0203	TO PARKING	0.00	0.00	0.00	9		300	GR
0920A	17564	EAST BANK TRAILHEAD PARKING A	FROM STATE HIGHWAY 20 AT MILEPOST 138	TO PARKING	0.00	0.00	0.00	9		1,000	GR

# NPS/RIP Route ID Report

(Numerical By Route #)

Shading Color Key:

Red text denotes approx. mileage

White = Paved Routes, ARAN Driven

Yellow = Unpaved Routes, ARAN not Driven

Blue = All Paved Parking Areas

Grey = Paved Routes, ARAN not Driven

Red =

Green = All Unpaved Parking Areas

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

Purple =

## NOCA

### North Cascades National Park

Rte. #	FMSS Asset #	Route Name	Route Description		Paved Miles	Un-Paved Miles	Rte. Lgth	Func. Class	Rte. Lanes	Manual Rated SQ/FT	Surf. Type
			From	To							
0920B	60413	EAST BANK TRAILHEAD PARKING B	FROM STATE HIGHWAY 20 AT MILEPOST 138	TO PARKING	0.00	0.00	0.00	9		669	GR
0921	17492	CASCADE PASS TRAILHEAD PARKING	FROM ROUTE 0101	TO PARKING	0.00	0.00	0.00	9		1,176	GR
0922	60354	ENVIRONMENTAL LEARNING CENTER / DIABLO LAKE TRAILHEAD PARKING	FROM ROUTE 0105	TO ROUTE 0105	0.00	0.00	0.00	9		1,676	GR
0923		NEWHALEM CREEK DUMP STATION PARKING	FROM ROUTE 0208	TO ROUTE 0208	0.00	0.00	0.00	9		2,416	AS
0924		NEWHALEM CREEK INFORMATION LANE	FROM ROUTE 0208	TO PARKING	0.00	0.00	0.00	9		2,361	AS
0925		NEWHALEM CREEK REGISTRATION PARKING	FROM ROUTE 0208	TO PARKING	0.00	0.00	0.00	9		1,642	AS
<b>Totals:</b>					<b>10.98</b>	<b>37.13</b>	<b>48.10</b>			<b>510,355</b>	

#### General Park Road Functional Classification Table

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

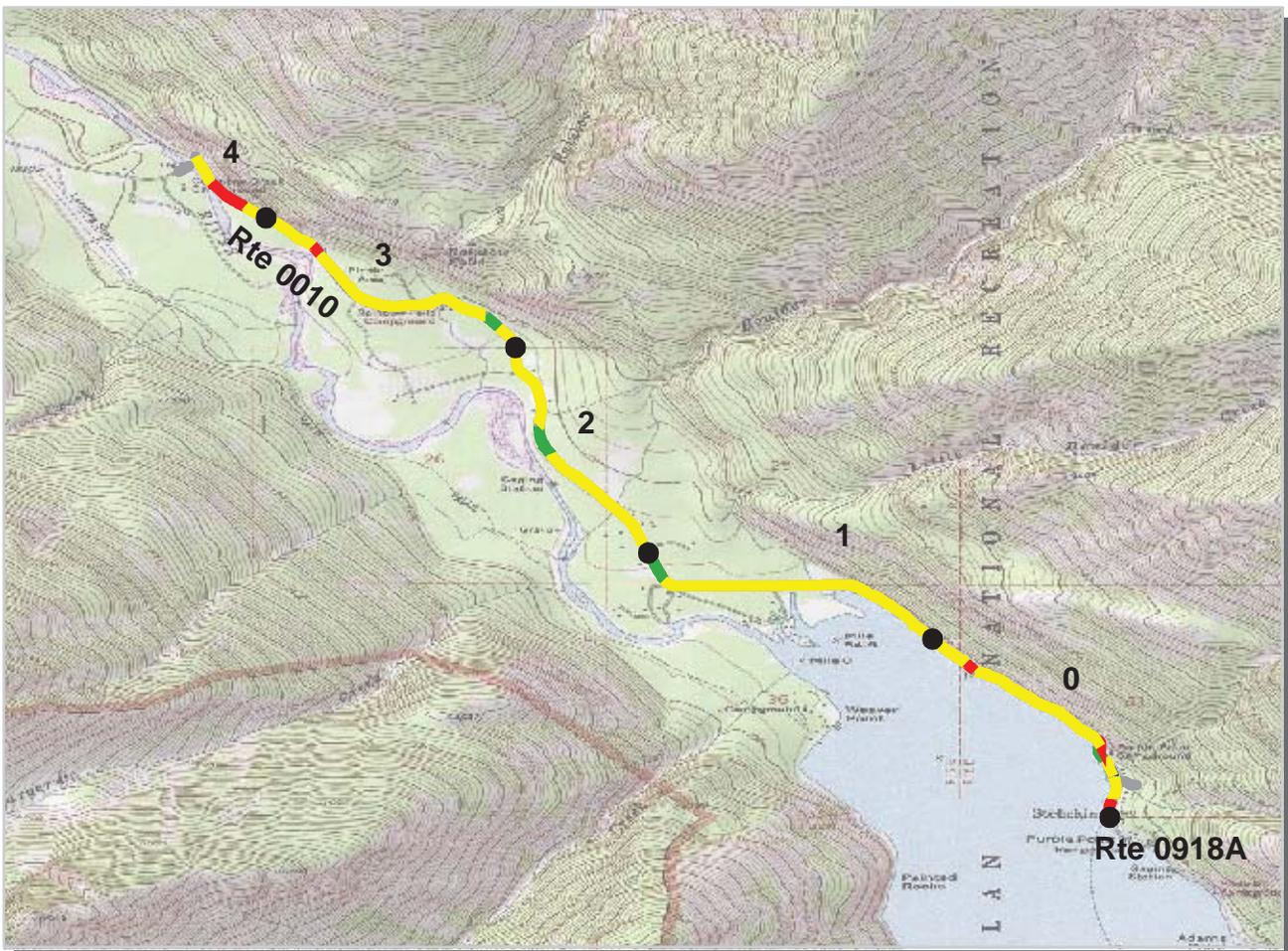
#### Surface Type Abbreviations:

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

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

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

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



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.

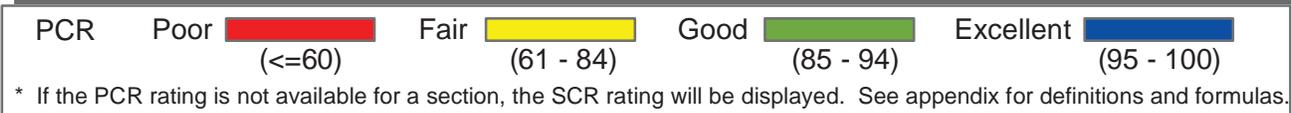
**Pacific West Region**  
**NOCA : North Cascades National Park**

**ROUTE: 0010 Stehekin Valley Road** **TOTAL LENGTH: 4.35 Miles**

Section Number	0	1	2	3	4
Section Length (mi)	1.00	1.00	1.00	1.00	0.35
AADT	**				
SADT	**				
ADT Date	**				
<b>Cross Section Information</b>					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	16	16	16	17	19
Lane Width (ft)	8	8	8	8	9
Shoulder Width (ft)	0	0	0	0	0
<b>Roadway Condition Information</b>					
PCR (Pavement Condition Rating)	72	76	79	72	57
RCI (Roughness Condition Index)	59	63	75	74	56
SCR (Surface Condition Rating)	77	85	82	70	57
Alligator Cracking Index	100	100	99	100	100
Rutting Index	78	85	83	71	73
Patching Index	99	99	99	99	84
Transverse Cracking Index	100	99	99	99	99
Longitudinal Cracking Index	99	99	99	99	99
Shoulder Condition Rating	N/A	N/A	N/A	N/A	N/A
Drainage Condition Rating	GOOD	GOOD	GOOD	GOOD	GOOD

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

ROUTE: 0010 Stehekin Valley Road



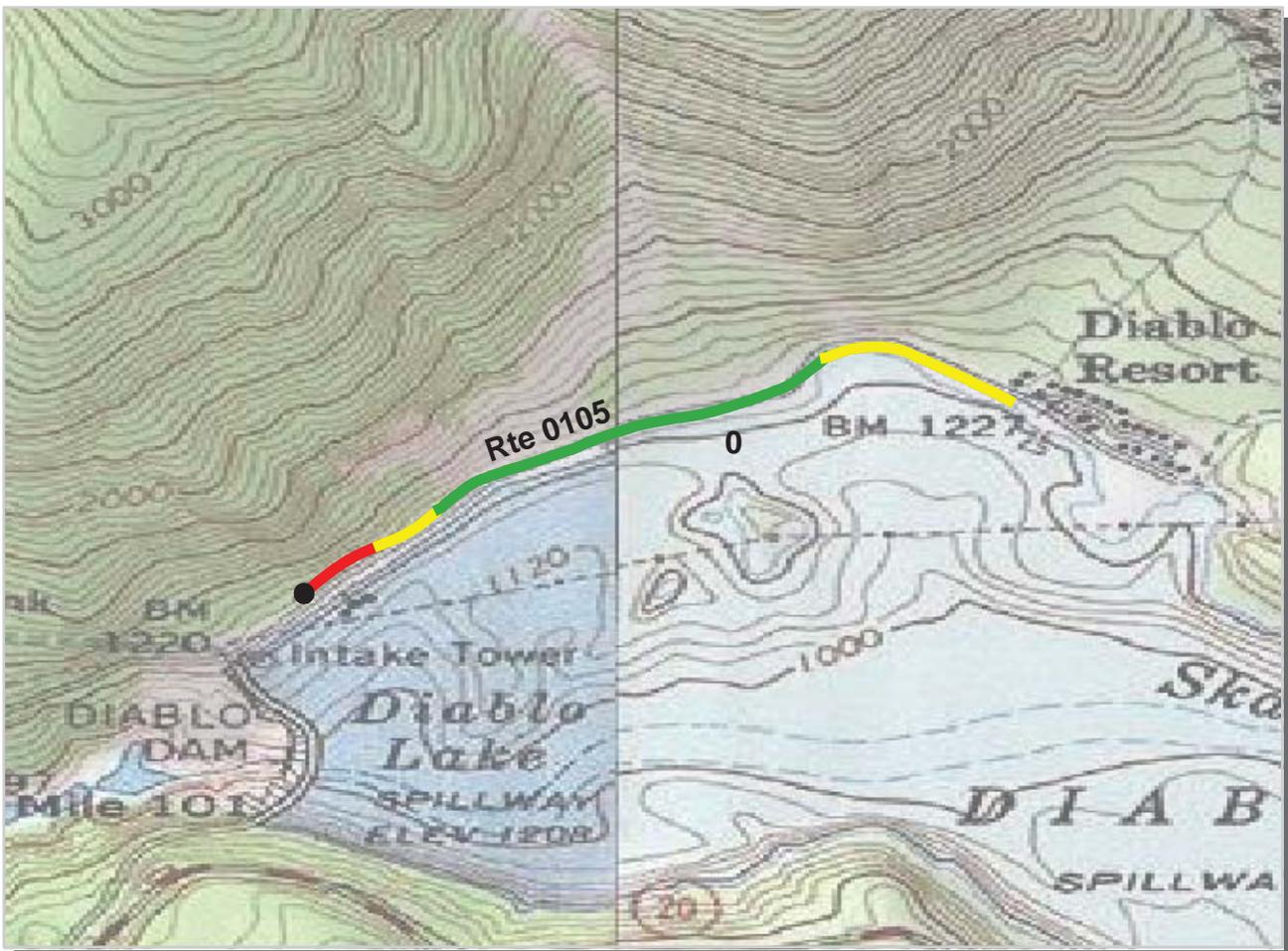
**Pacific West Region**  
**NOCA : North Cascades National Park**

**ROUTE: 0100 Company Creek Road** **TOTAL LENGTH: 0.07 Miles**

Section Number	0				
Section Length (mi)	0.07				
AADT	**				
SADT	**				
ADT Date	**				
<b>Cross Section Information</b>					
Number of Lanes	1				
Paved Width (ft)	15				
Lane Width (ft)	15				
Shoulder Width (ft)	0				
<b>Roadway Condition Information</b>					
PCR (Pavement Condition Rating)	78				
RCI (Roughness Condition Index)	17				
SCR (Surface Condition Rating)	85				
Alligator Cracking Index	100				
Rutting Index	85				
Patching Index	100				
Transverse Cracking Index	100				
Longitudinal Cracking Index	100				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0100 Company Creek Road

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



PCR	Poor	<span style="display:inline-block; width:15px; height:15px; background-color:red;"></span>	Fair	<span style="display:inline-block; width:15px; height:15px; background-color:yellow;"></span>	Good	<span style="display:inline-block; width:15px; height:15px; background-color:green;"></span>	Excellent	<span style="display:inline-block; width:15px; height:15px; background-color:blue;"></span>
		(≤60)		(61 - 84)		(85 - 94)		(95 - 100)

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

**Pacific West Region**

**NOCA : North Cascades National Park**

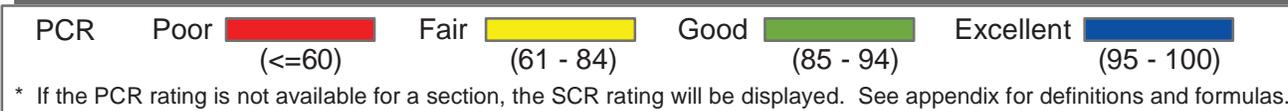
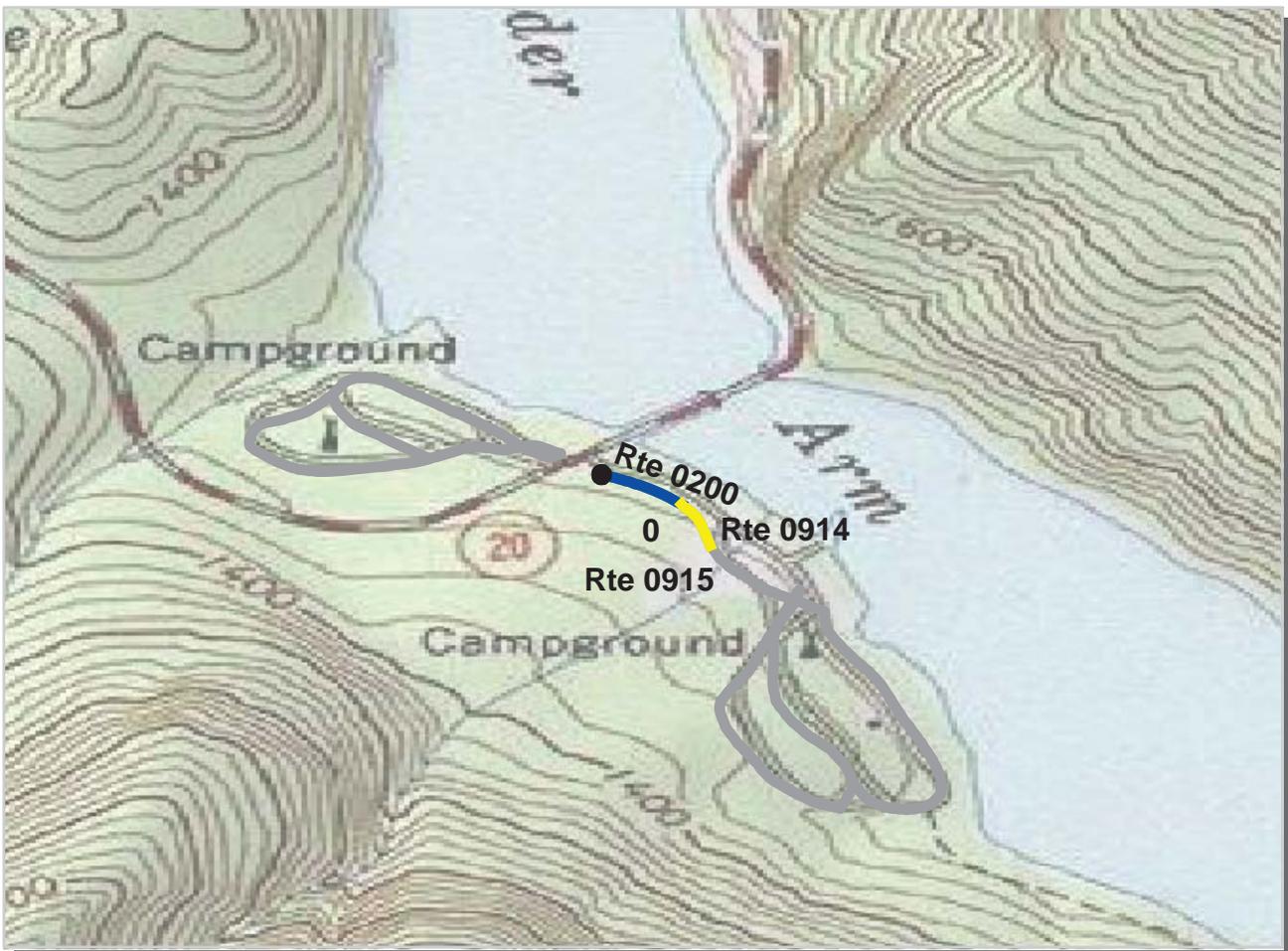
**ROUTE: 0105 Environmental Learning Center Access Road**

**TOTAL LENGTH: 0.66 Miles**

Section Number	0				
Section Length (mi)	0.66				
AADT	**				
SADT	**				
ADT Date	**				
<b>Cross Section Information</b>					
Number of Lanes	2				
Paved Width (ft)	18				
Lane Width (ft)	9				
Shoulder Width (ft)	0				
<b>Roadway Condition Information</b>					
PCR (Pavement Condition Rating)	76				
RCI (Roughness Condition Index)	89				
SCR (Surface Condition Rating)	69				
Alligator Cracking Index	98				
Rutting Index	75				
Patching Index	99				
Transverse Cracking Index	97				
Longitudinal Cracking Index	98				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

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

ROUTE: 0105 Environmental Learning Center Access Road



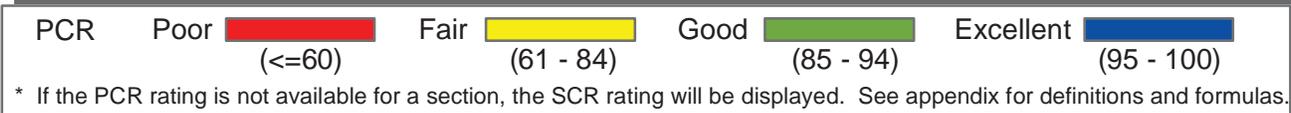
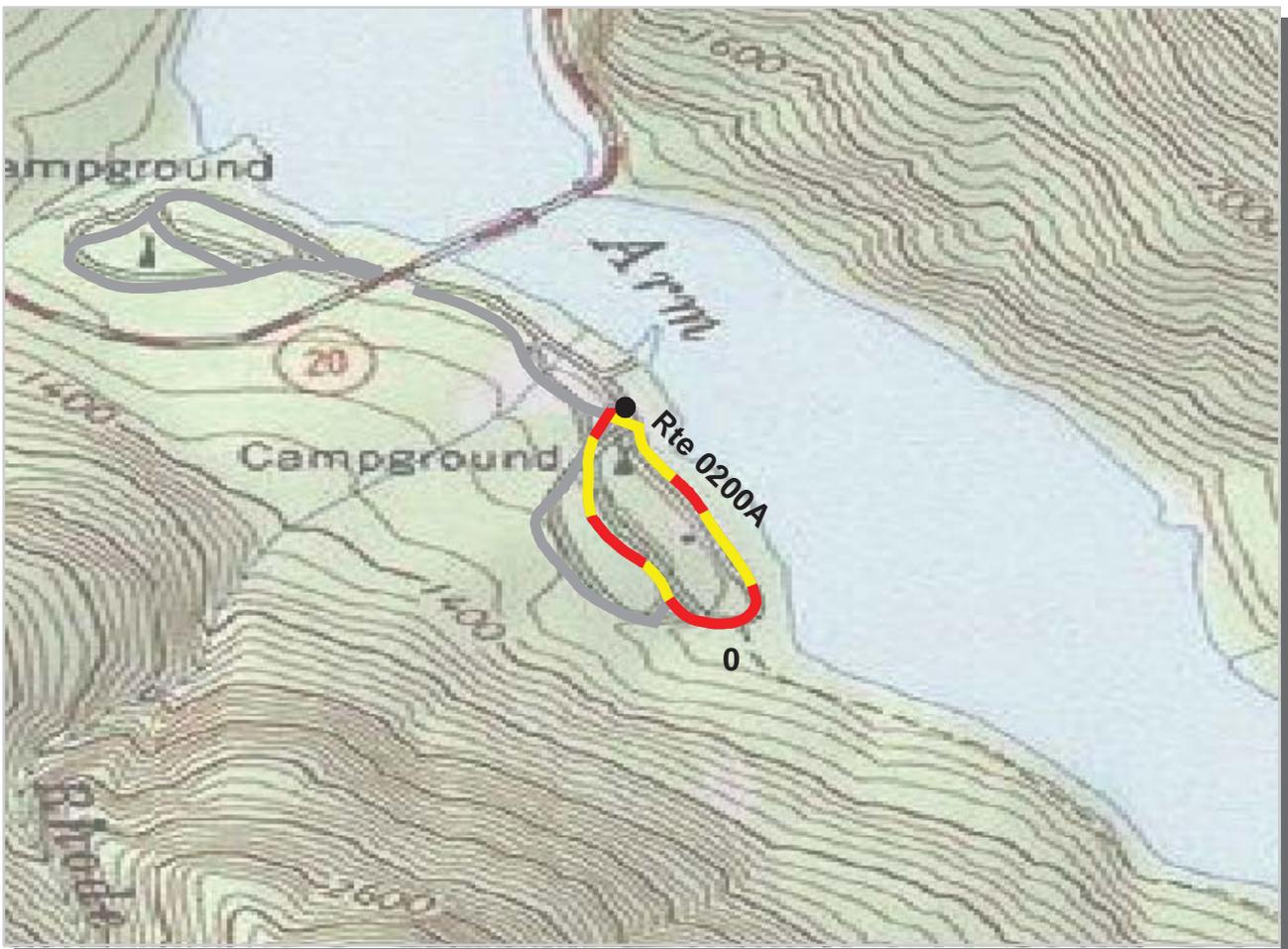
**Pacific West Region**  
**NOCA : North Cascades National Park**

**ROUTE: 0200 Colonial Creek Campground Access South** **TOTAL LENGTH: 0.11 Miles**

Section Number	0				
Section Length (mi)	0.11				
AADT	**				
SADT	**				
ADT Date	**				
<b>Cross Section Information</b>					
Number of Lanes	2				
Paved Width (ft)	22				
Lane Width (ft)	11				
Shoulder Width (ft)	0				
<b>Roadway Condition Information</b>					
PCR (Pavement Condition Rating)	85				
RCI (Roughness Condition Index)	76				
SCR (Surface Condition Rating)	87				
Alligator Cracking Index	100				
Rutting Index	87				
Patching Index	100				
Transverse Cracking Index	100				
Longitudinal Cracking Index	100				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

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

ROUTE: 0200 Colonial Creek Campground Access South



**Pacific West Region**  
**NOCA : North Cascades National Park**

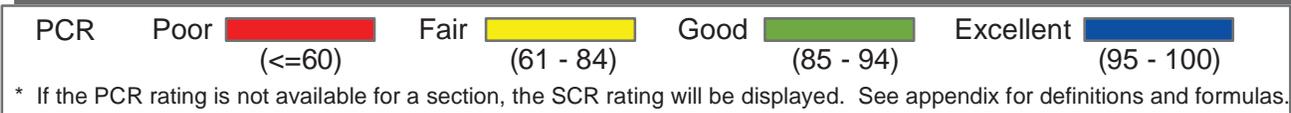
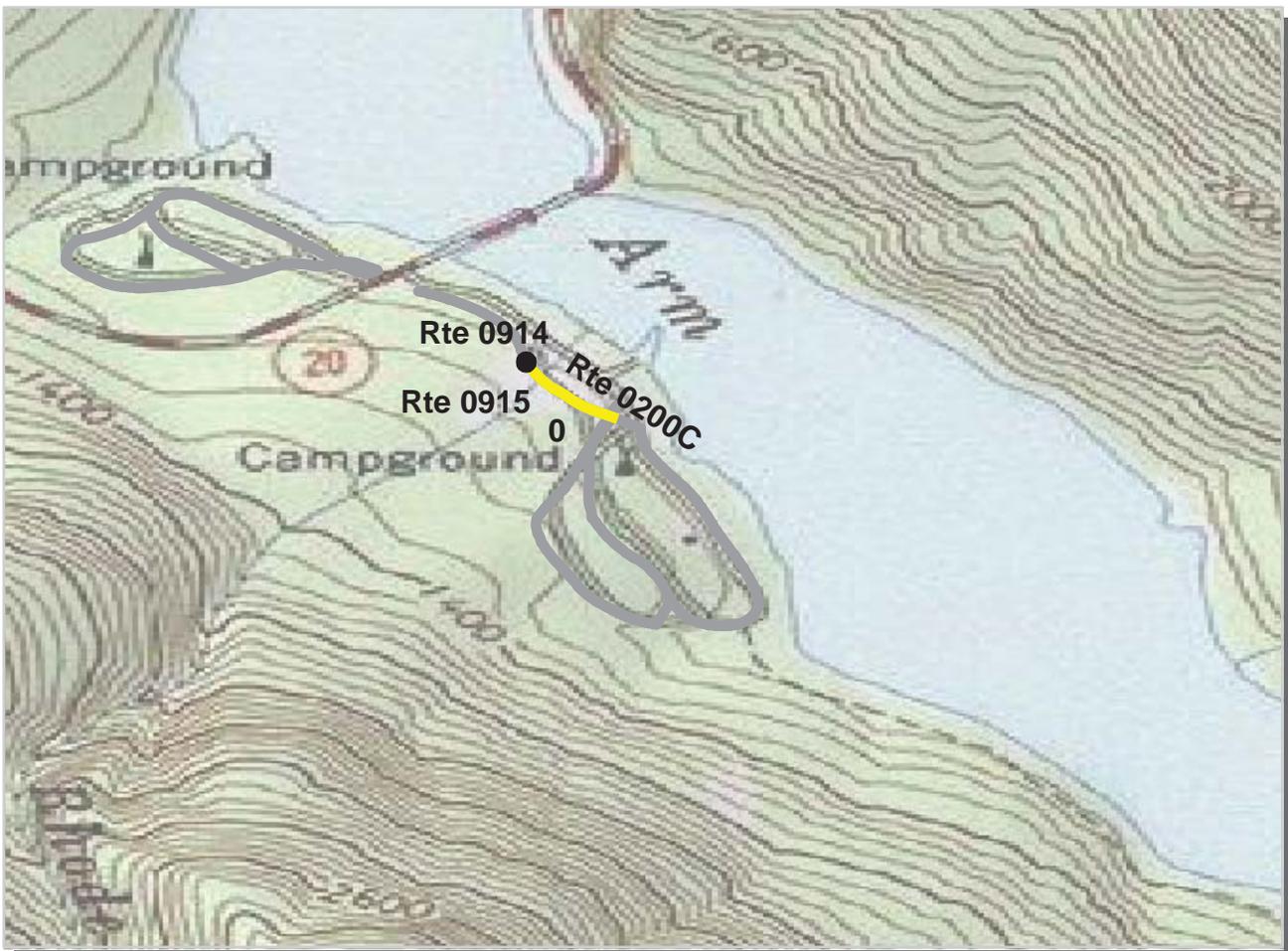
**ROUTE: 0200A Colonial Creek Campground Loop A** **TOTAL LENGTH: 0.53 Miles**

Section Number	0				
Section Length (mi)	0.53				
AADT	**				
SADT	**				
ADT Date	**				
<b>Cross Section Information</b>					
Number of Lanes	1				
Paved Width (ft)	11				
Lane Width (ft)	11				
Shoulder Width (ft)	0				
<b>Roadway Condition Information</b>					
PCR (Pavement Condition Rating)	64				
RCI (Roughness Condition Index)	47				
SCR (Surface Condition Rating)	70				
Alligator Cracking Index	100				
Rutting Index	71				
Patching Index	99				
Transverse Cracking Index	99				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0200A Colonial Creek Campground Loop A

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





**Pacific West Region**

**NOCA : North Cascades National Park**

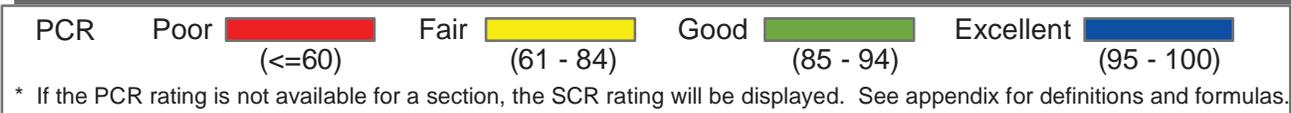
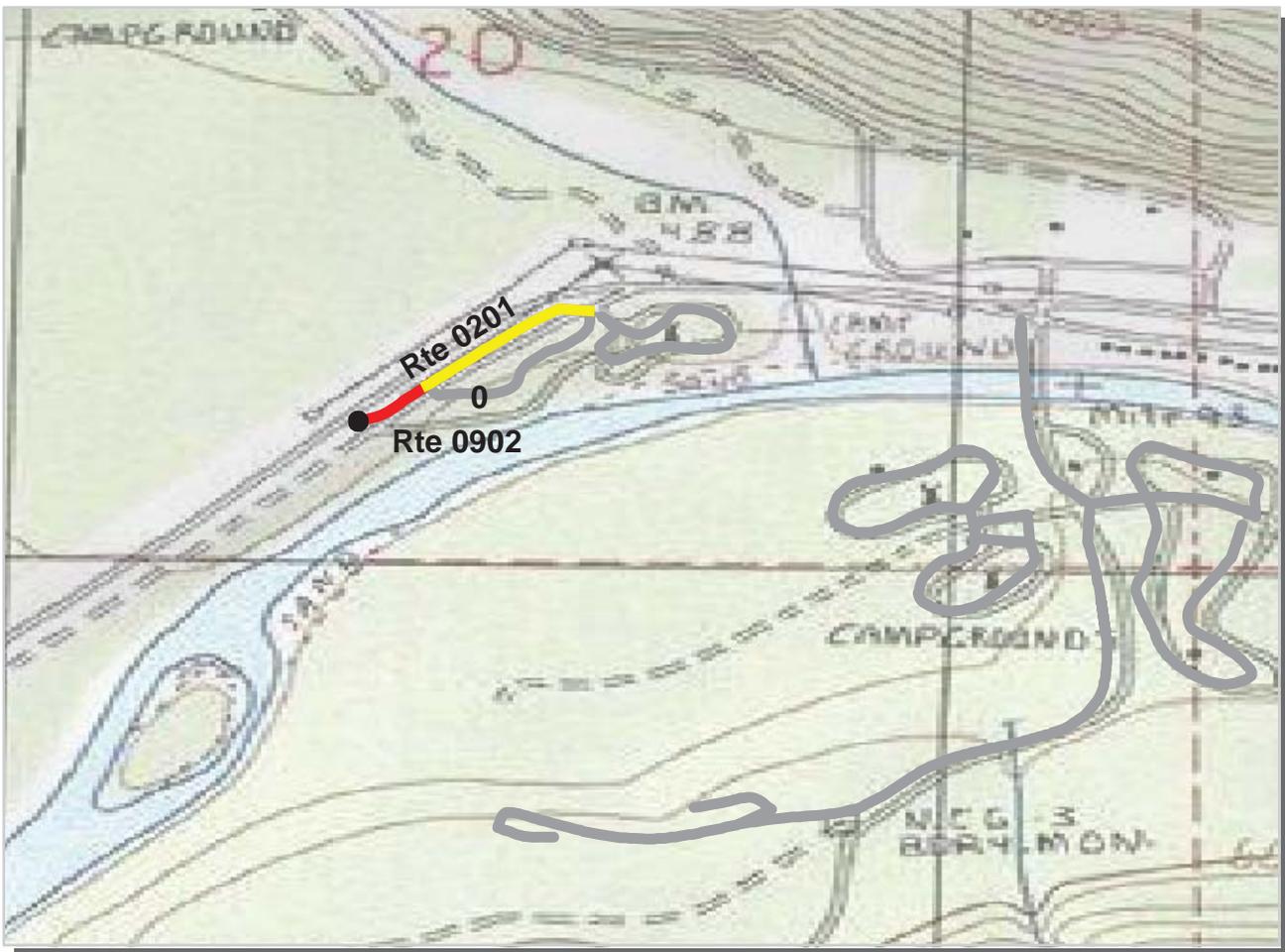
**ROUTE: 0200C Dump Station Access Road**

**TOTAL LENGTH: 0.09 Miles**

Section Number	0				
Section Length (mi)	0.09				
AADT	**				
SADT	**				
ADT Date	**				
<b>Cross Section Information</b>					
Number of Lanes	2				
Paved Width (ft)	20				
Lane Width (ft)	10				
Shoulder Width (ft)	0				
<b>Roadway Condition Information</b>					
PCR (Pavement Condition Rating)	64				
RCI (Roughness Condition Index)	57				
SCR (Surface Condition Rating)	67				
Alligator Cracking Index	100				
Rutting Index	68				
Patching Index	99				
Transverse Cracking Index	99				
Longitudinal Cracking Index	100				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0200C Dump Station Access Road

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



**Pacific West Region**

**NOCA : North Cascades National Park**

**ROUTE: 0201 Goodell Creek Campground Access Road**

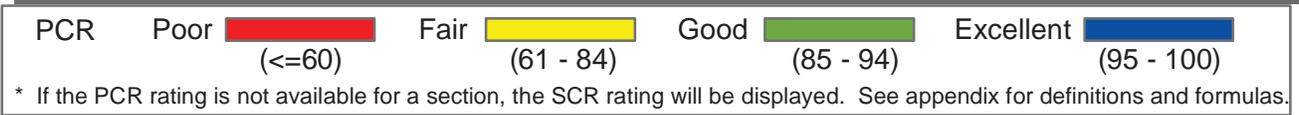
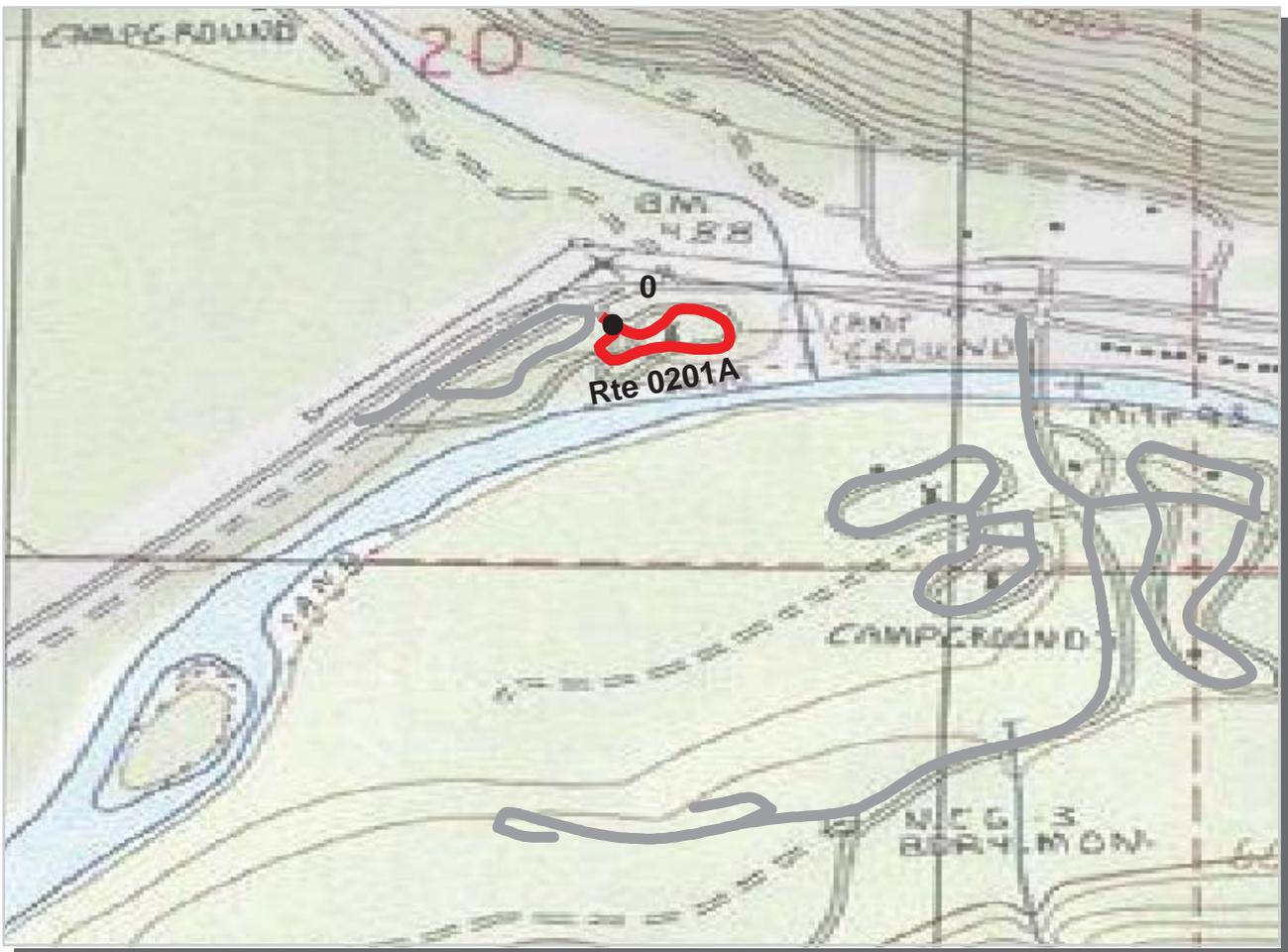
**TOTAL LENGTH: 0.20 Miles**

Section Number	0				
Section Length (mi)	0.20				
AADT	**				
SADT	**				
ADT Date	**				
<b>Cross Section Information</b>					
Number of Lanes	2				
Paved Width (ft)	24				
Lane Width (ft)	12				
Shoulder Width (ft)	0				
<b>Roadway Condition Information</b>					
PCR (Pavement Condition Rating)	68				
RCI (Roughness Condition Index)	96				
SCR (Surface Condition Rating)	63				
Alligator Cracking Index	100				
Rutting Index	64				
Patching Index	99				
Transverse Cracking Index	99				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0201 Goodell Creek Campground Access Road

\* NC designates data not collected NA designates not applicable

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



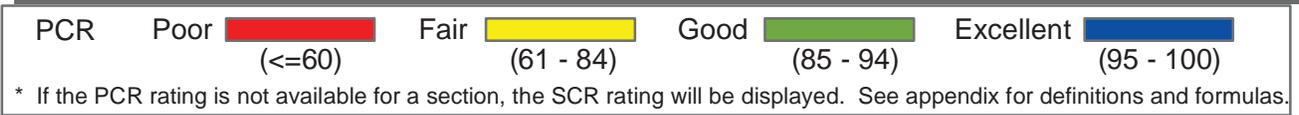
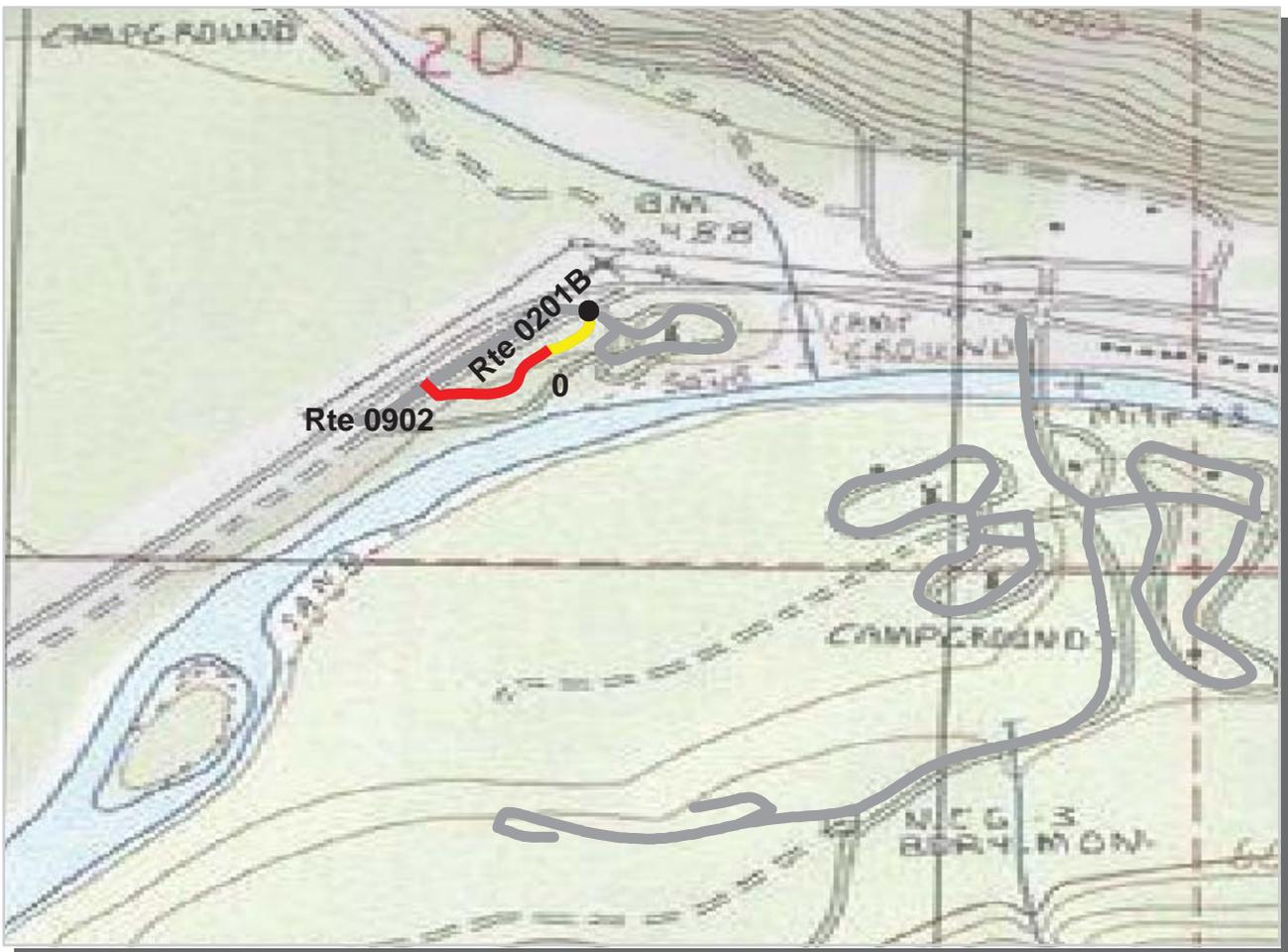
**Pacific West Region**  
**NOCA : North Cascades National Park**

**ROUTE: 0201A Goodell Creek Campground Loop A** **TOTAL LENGTH: 0.27 Miles**

Section Number	0				
Section Length (mi)	0.27				
AADT	**				
SADT	**				
ADT Date	**				
<b>Cross Section Information</b>					
Number of Lanes	1				
Paved Width (ft)	12				
Lane Width (ft)	12				
Shoulder Width (ft)	0				
<b>Roadway Condition Information</b>					
PCR (Pavement Condition Rating)	43				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	43				
Alligator Cracking Index	100				
Rutting Index	43				
Patching Index	100				
Transverse Cracking Index	100				
Longitudinal Cracking Index	100				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0201A Goodell Creek Campground Loop A

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



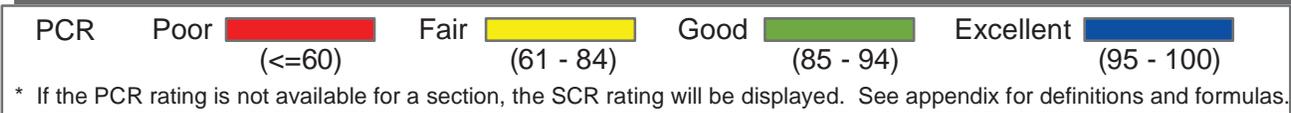
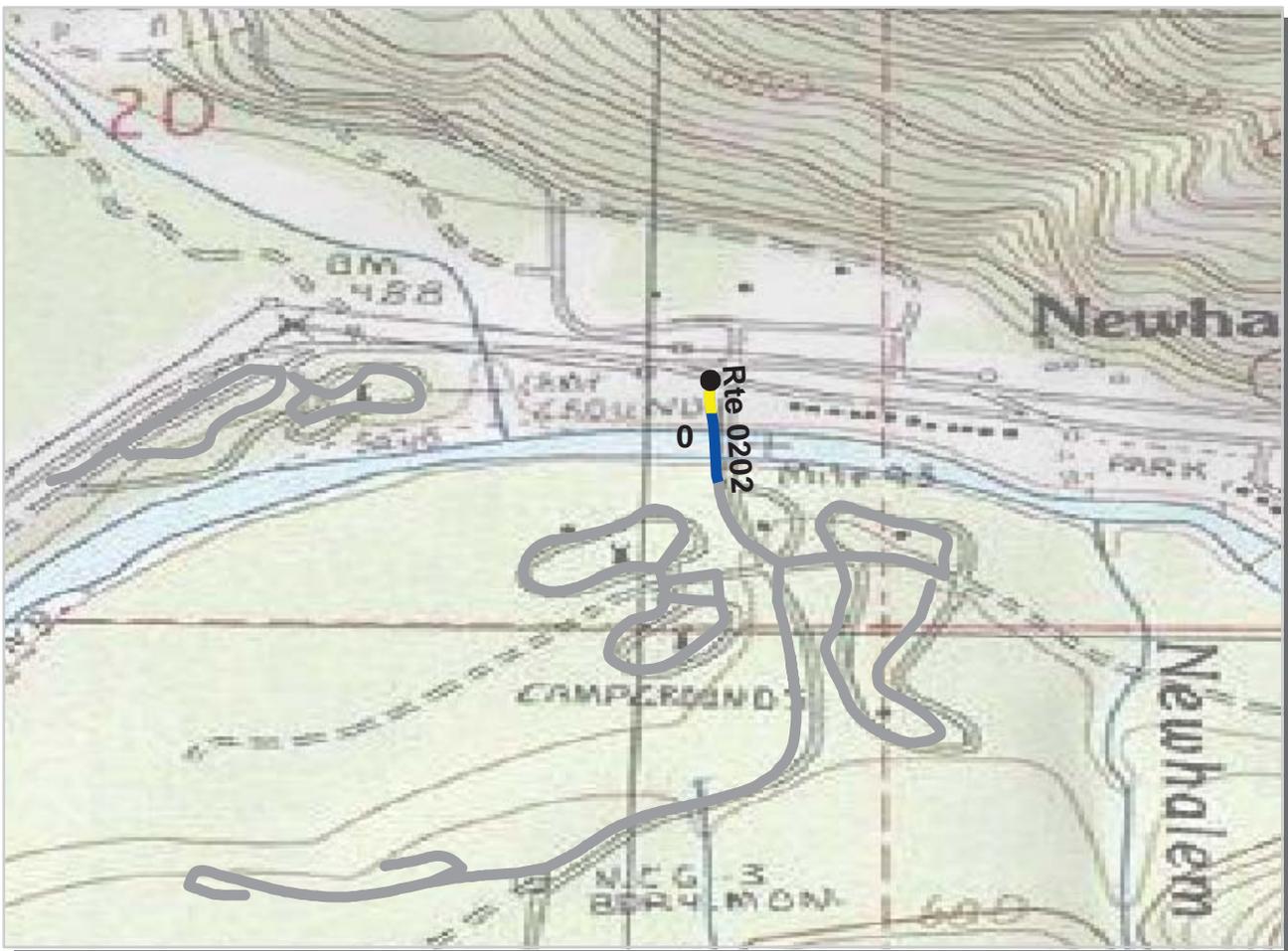
**Pacific West Region**  
**NOCA : North Cascades National Park**

**ROUTE: 0201B Goodell Creek Campground Loop B** **TOTAL LENGTH: 0.18 Miles**

Section Number	0				
Section Length (mi)	0.18				
AADT	**				
SADT	**				
ADT Date	**				
<b>Cross Section Information</b>					
Number of Lanes	1				
Paved Width (ft)	12				
Lane Width (ft)	12				
Shoulder Width (ft)	0				
<b>Roadway Condition Information</b>					
PCR (Pavement Condition Rating)	51				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	51				
Alligator Cracking Index	100				
Rutting Index	51				
Patching Index	100				
Transverse Cracking Index	100				
Longitudinal Cracking Index	100				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

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

ROUTE: 0201B Goodell Creek Campground Loop B



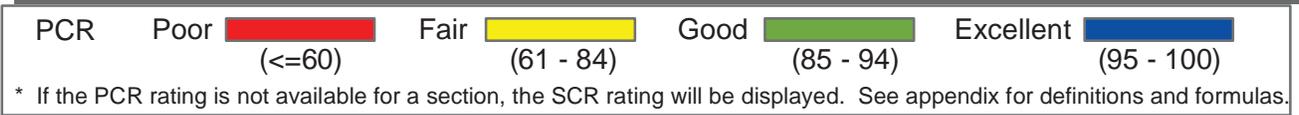
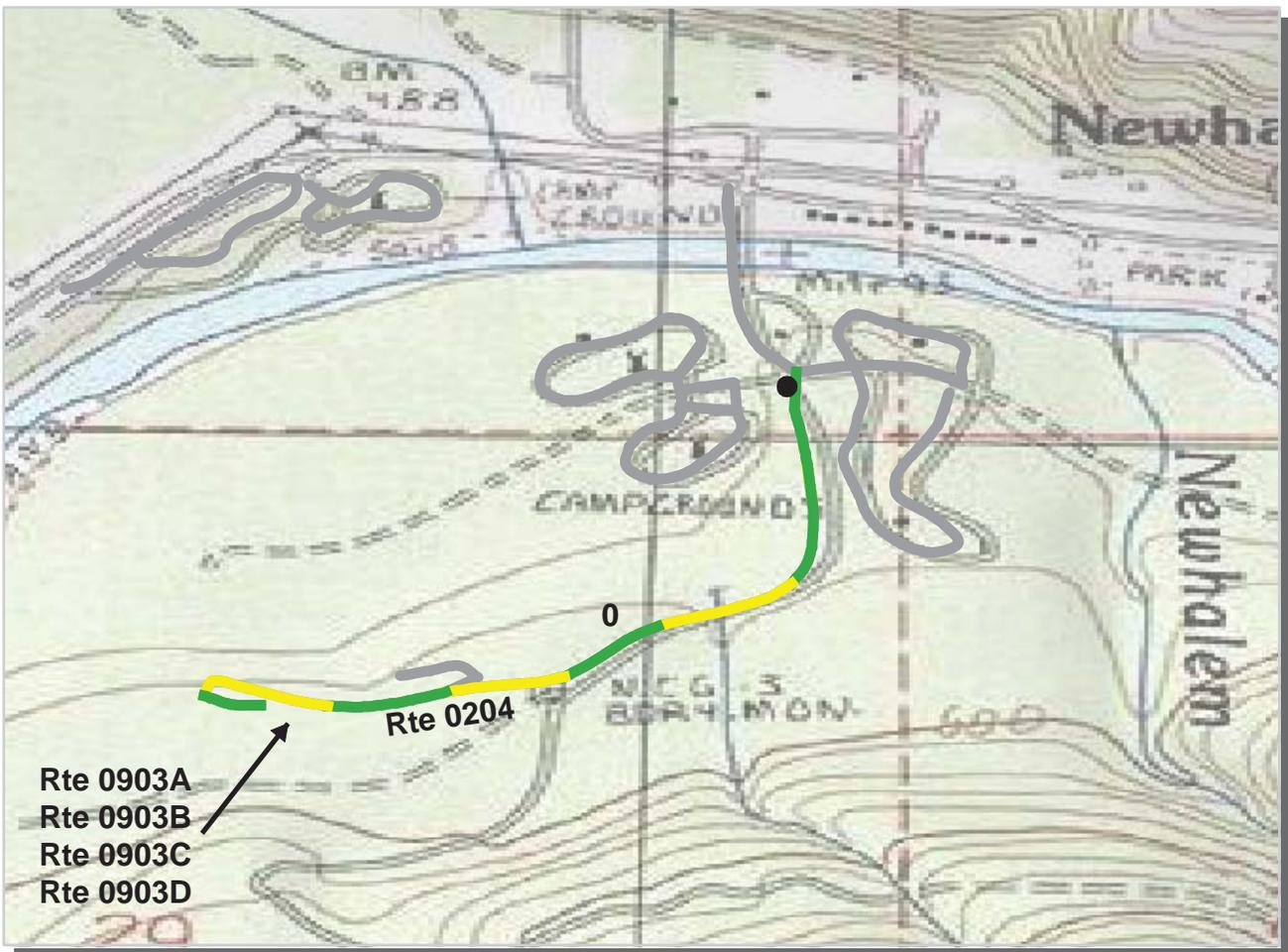
**Pacific West Region**  
**NOCA : North Cascades National Park**

**ROUTE: 0202 Newhalem Creek Campground Access Road** **TOTAL LENGTH: 0.11 Miles**

Section Number	0				
Section Length (mi)	0.11				
AADT	**				
SADT	**				
ADT Date	**				
<b>Cross Section Information</b>					
Number of Lanes	2				
Paved Width (ft)	28				
Lane Width (ft)	15				
Shoulder Width (ft)	0				
<b>Roadway Condition Information</b>					
PCR (Pavement Condition Rating)	83				
RCI (Roughness Condition Index)	22				
SCR (Surface Condition Rating)	85				
Alligator Cracking Index	100				
Rutting Index	88				
Patching Index	97				
Transverse Cracking Index	99				
Longitudinal Cracking Index	100				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0202 Newhalem Creek Campground Access Road

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



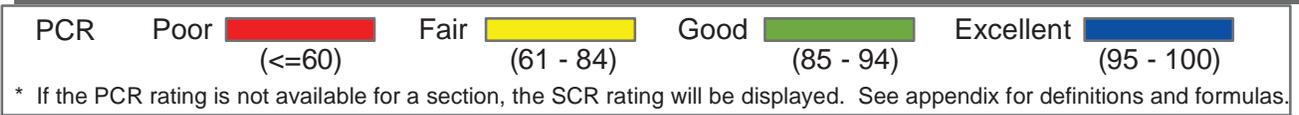
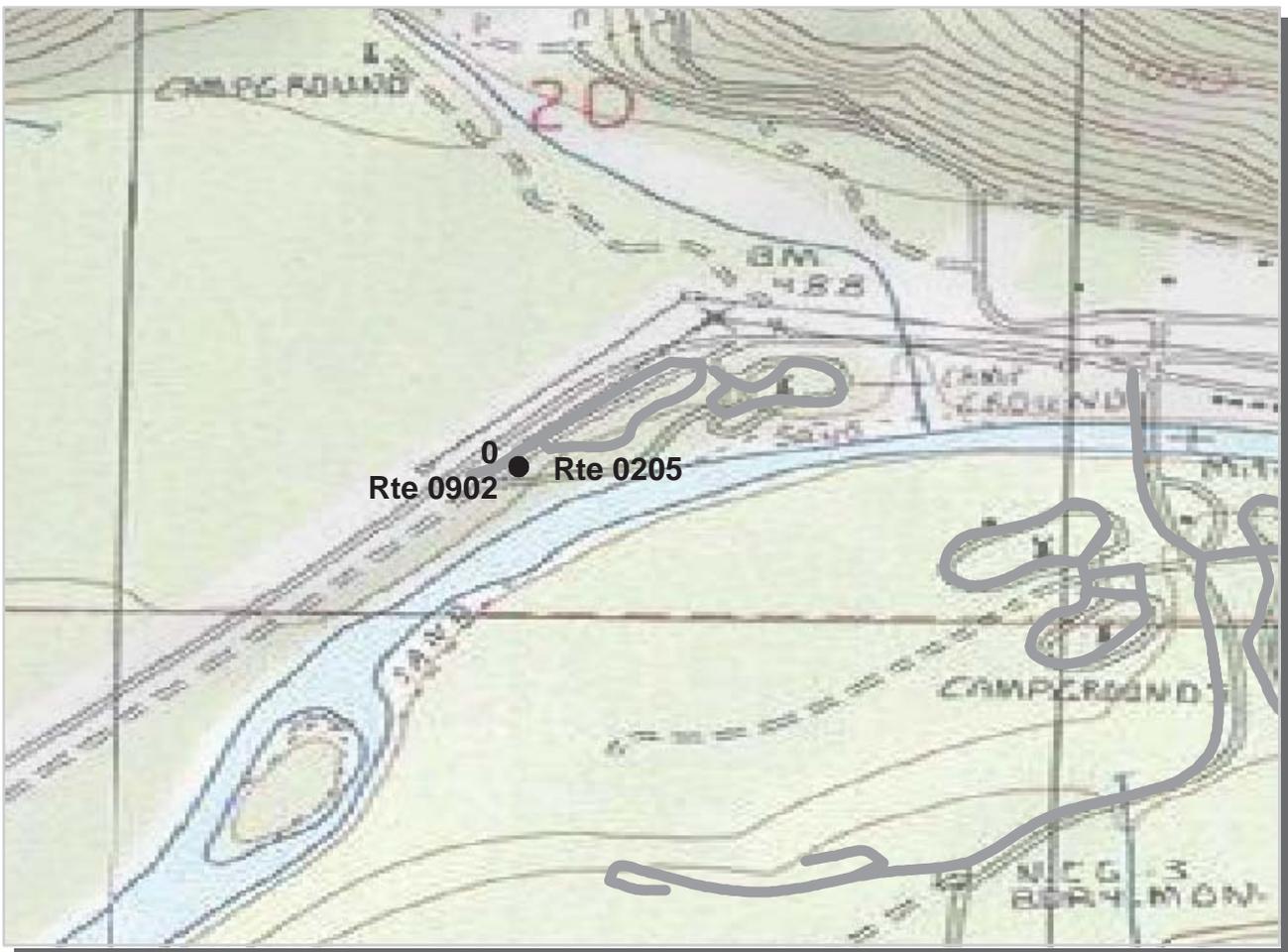
**Pacific West Region**  
**NOCA : North Cascades National Park**

**ROUTE: 0204 North Cascades Visitor Center Access Road** **TOTAL LENGTH: 0.70 Miles**

Section Number	0				
Section Length (mi)	0.70				
AADT	**				
SADT	**				
ADT Date	**				
<b>Cross Section Information</b>					
Number of Lanes	2				
Paved Width (ft)	21				
Lane Width (ft)	10				
Shoulder Width (ft)	0				
<b>Roadway Condition Information</b>					
PCR (Pavement Condition Rating)	81				
RCI (Roughness Condition Index)	65				
SCR (Surface Condition Rating)	88				
Alligator Cracking Index	100				
Rutting Index	89				
Patching Index	99				
Transverse Cracking Index	99				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

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

ROUTE: 0204 North Cascades Visitor Center Access Road



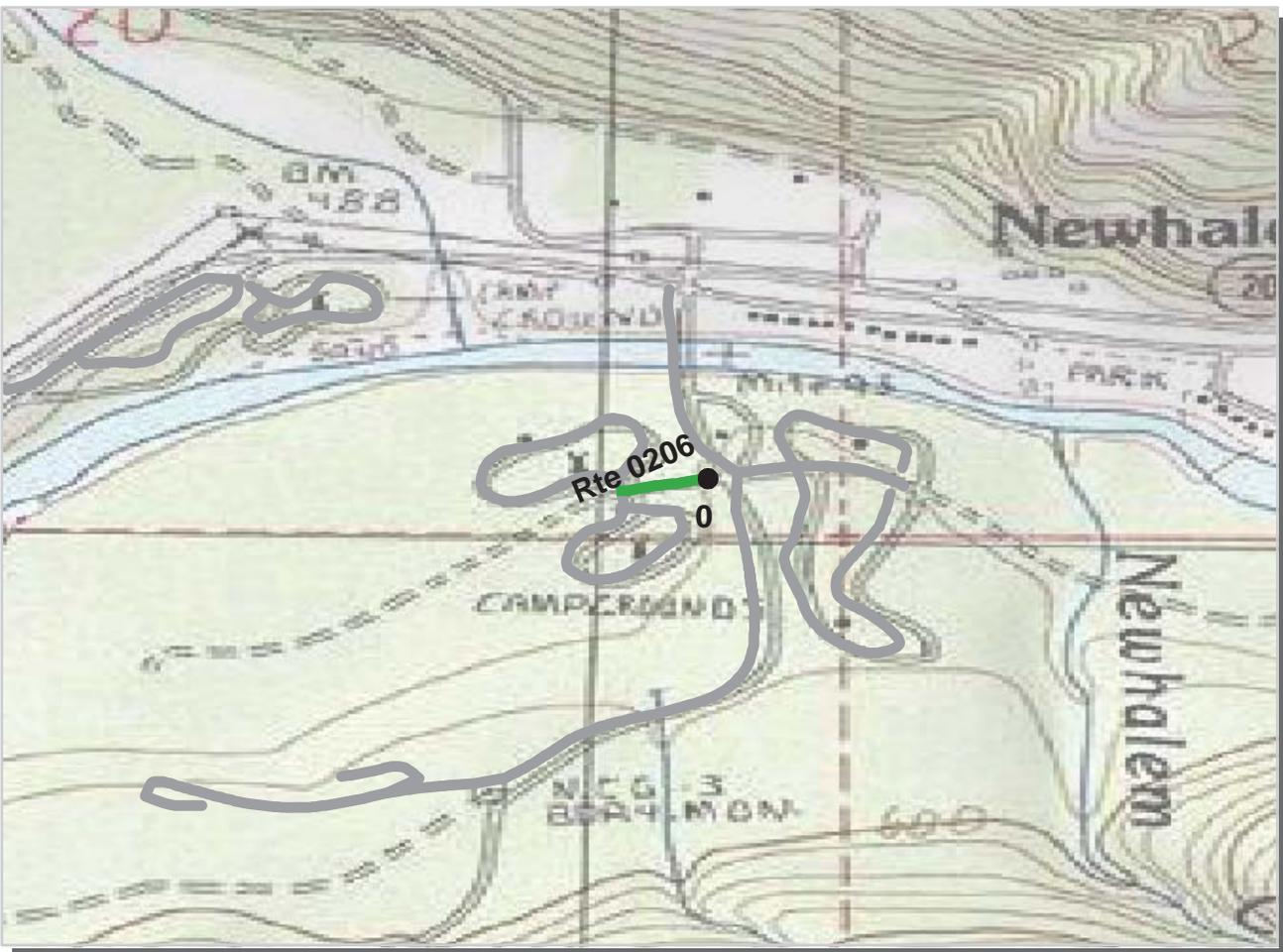
**Pacific West Region**  
**NOCA : North Cascades National Park**

**ROUTE: 0205 Raft Launch Loop** **TOTAL LENGTH: 0.05 Miles**

Section Number	0				
Section Length (mi)	0.05				
AADT	**				
SADT	**				
ADT Date	**				
<b>Cross Section Information</b>					
Number of Lanes	1				
Paved Width (ft)	10				
Lane Width (ft)	10				
Shoulder Width (ft)	0				
<b>Roadway Condition Information</b>					
PCR (Pavement Condition Rating)	60				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	60				
Alligator Cracking Index	100				
Rutting Index	61				
Patching Index	100				
Transverse Cracking Index	99				
Longitudinal Cracking Index	100				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0205 Raft Launch Loop

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



47

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.

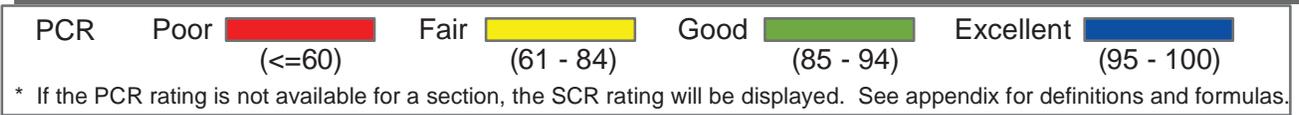
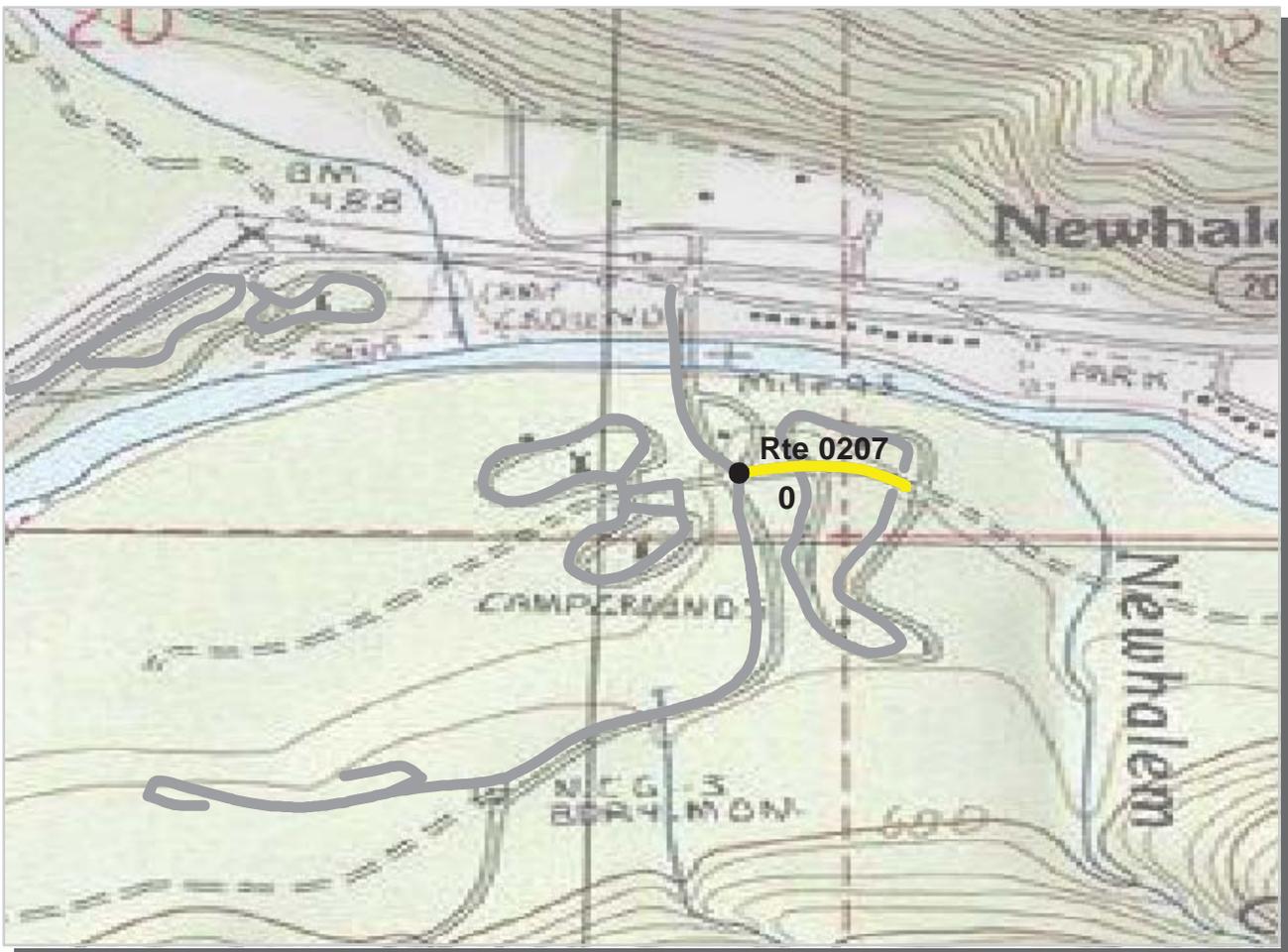
**Pacific West Region**  
**NOCA : North Cascades National Park**

**ROUTE: 0206 Newhalem Creek Campground Access To Loops A & B** **TOTAL LENGTH: 0.07 Miles**

Section Number	0				
Section Length (mi)	0.07				
AADT	**				
SADT	**				
ADT Date	**				
<b>Cross Section Information</b>					
Number of Lanes	2				
Paved Width (ft)	19				
Lane Width (ft)	10				
Shoulder Width (ft)	0				
<b>Roadway Condition Information</b>					
PCR (Pavement Condition Rating)	87				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	87				
Alligator Cracking Index	100				
Rutting Index	89				
Patching Index	99				
Transverse Cracking Index	99				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0206 Newhalem Creek Campground Access To Loops A & B

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



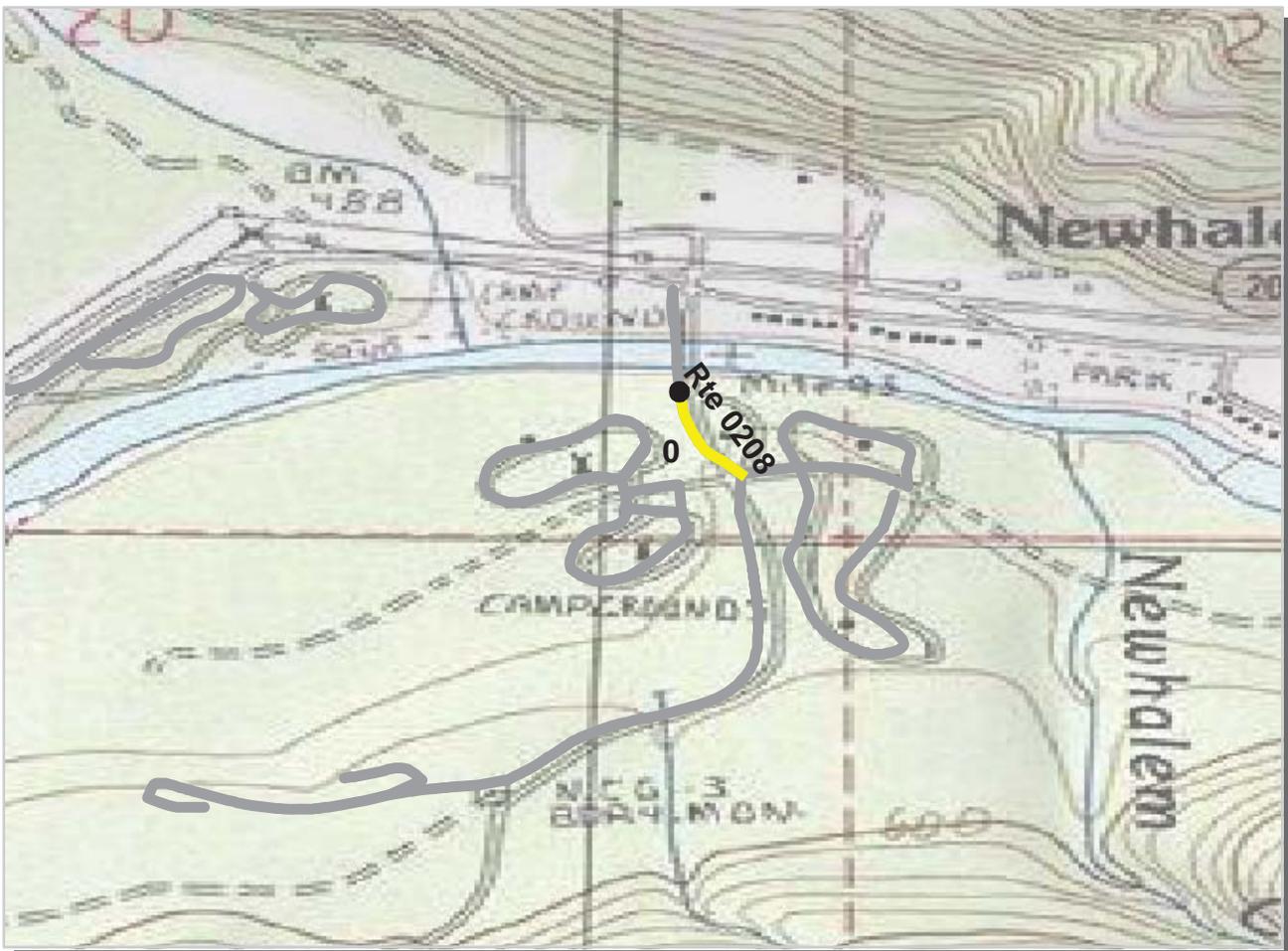
**Pacific West Region**  
**NOCA : North Cascades National Park**

**ROUTE: 0207 Newhalem Creek Campground Access To Loops C & D** **TOTAL LENGTH: 0.13 Miles**

Section Number	0				
Section Length (mi)	0.13				
AADT	**				
SADT	**				
ADT Date	**				
<b>Cross Section Information</b>					
Number of Lanes	2				
Paved Width (ft)	20				
Lane Width (ft)	10				
Shoulder Width (ft)	4				
<b>Roadway Condition Information</b>					
PCR (Pavement Condition Rating)	67				
RCI (Roughness Condition Index)	61				
SCR (Surface Condition Rating)	70				
Alligator Cracking Index	100				
Rutting Index	71				
Patching Index	100				
Transverse Cracking Index	99				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	GOOD				
Drainage Condition Rating	GOOD				

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

ROUTE: 0207 Newhalem Creek Campground Access To Loops C & D



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.

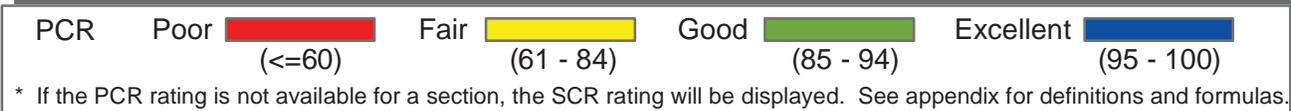
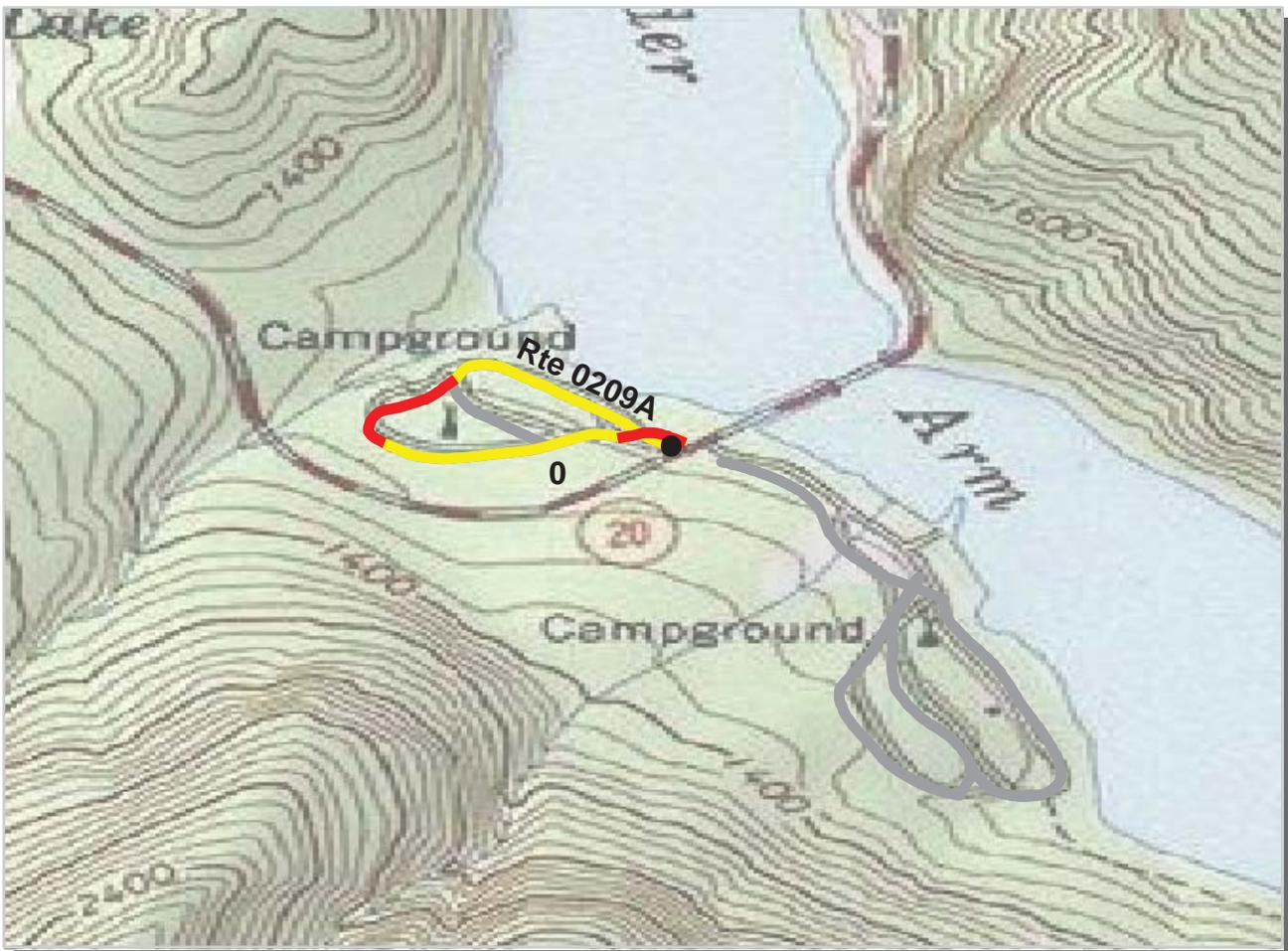
**Pacific West Region**  
**NOCA : North Cascades National Park**

**ROUTE: 0208 Newhalem Creek Kiosk/Dump Station**                    **TOTAL LENGTH: 0.10 Miles**

Section Number	0				
Section Length (mi)	0.10				
AADT	**				
SADT	**				
ADT Date	**				
<b>Cross Section Information</b>					
Number of Lanes	2				
Paved Width (ft)	27				
Lane Width (ft)	13				
Shoulder Width (ft)	0				
<b>Roadway Condition Information</b>					
PCR (Pavement Condition Rating)	73				
RCI (Roughness Condition Index)	55				
SCR (Surface Condition Rating)	76				
Alligator Cracking Index	100				
Rutting Index	81				
Patching Index	99				
Transverse Cracking Index	97				
Longitudinal Cracking Index	97				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

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

ROUTE: 0208 Newhalem Creek Kiosk/Dump Station



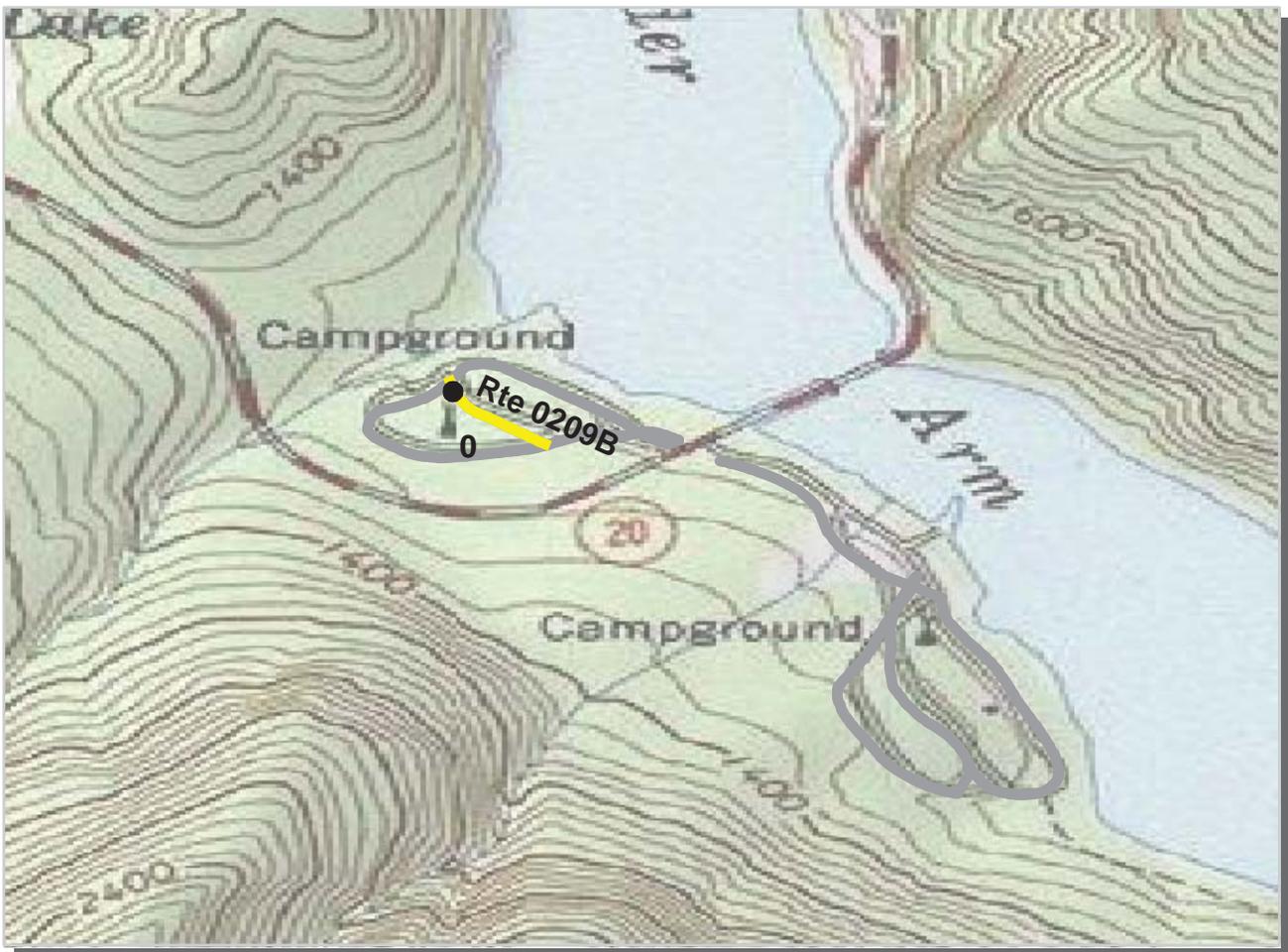
**Pacific West Region**  
**NOCA : North Cascades National Park**

**ROUTE: 0209A Colonial Creek Campground North Loop A TOTAL LENGTH: 0.49 Miles**

Section Number	0				
Section Length (mi)	0.49				
AADT	**				
SADT	**				
ADT Date	**				
<b>Cross Section Information</b>					
Number of Lanes	1				
Paved Width (ft)	11				
Lane Width (ft)	11				
Shoulder Width (ft)	0				
<b>Roadway Condition Information</b>					
PCR (Pavement Condition Rating)	65				
RCI (Roughness Condition Index)	48				
SCR (Surface Condition Rating)	70				
Alligator Cracking Index	100				
Rutting Index	72				
Patching Index	98				
Transverse Cracking Index	98				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

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

ROUTE: 0209A Colonial Creek Campground North Lo



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.

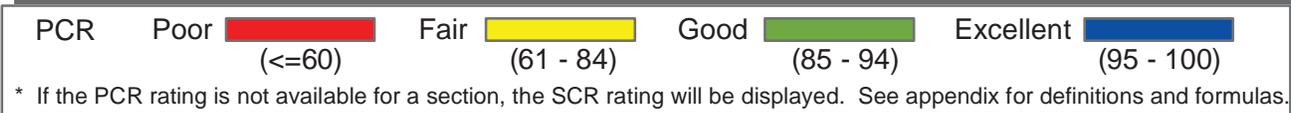
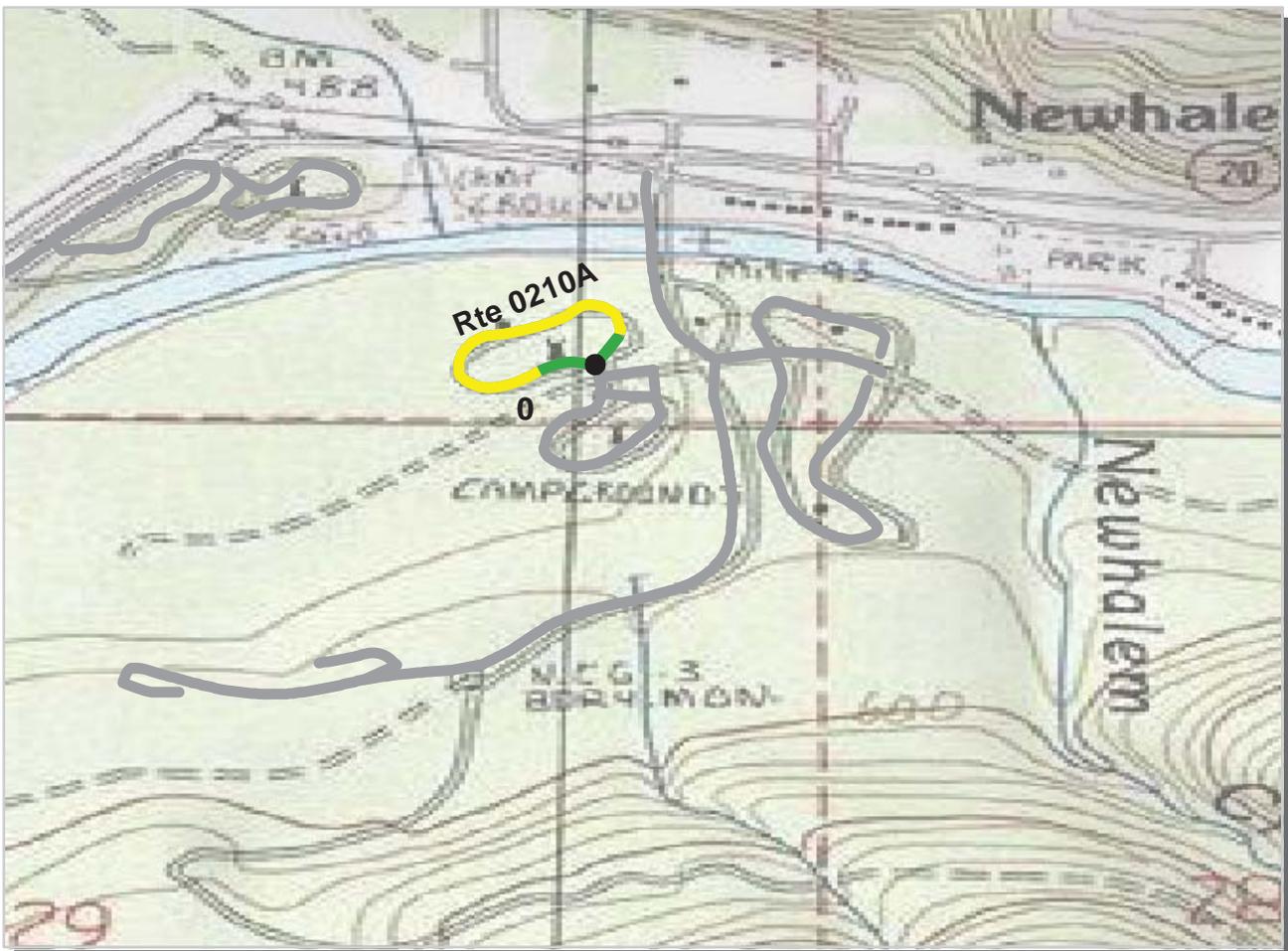
**Pacific West Region**  
**NOCA : North Cascades National Park**

**ROUTE: 0209B Colonial Creek Campground North Loop B                    TOTAL LENGTH: 0.10 Miles**

Section Number	0			
Section Length (mi)	0.10			
AADT	**			
SADT	**			
ADT Date	**			
<b>Cross Section Information</b>				
Number of Lanes	1			
Paved Width (ft)	11			
Lane Width (ft)	11			
Shoulder Width (ft)	0			
<b>Roadway Condition Information</b>				
PCR (Pavement Condition Rating)	72			
RCI (Roughness Condition Index)	NC			
SCR (Surface Condition Rating)	72			
Alligator Cracking Index	100			
Rutting Index	75			
Patching Index	99			
Transverse Cracking Index	99			
Longitudinal Cracking Index	98			
Shoulder Condition Rating	N/A			
Drainage Condition Rating	GOOD			

ROUTE: 0209B Colonial Creek Campground North Loop B

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



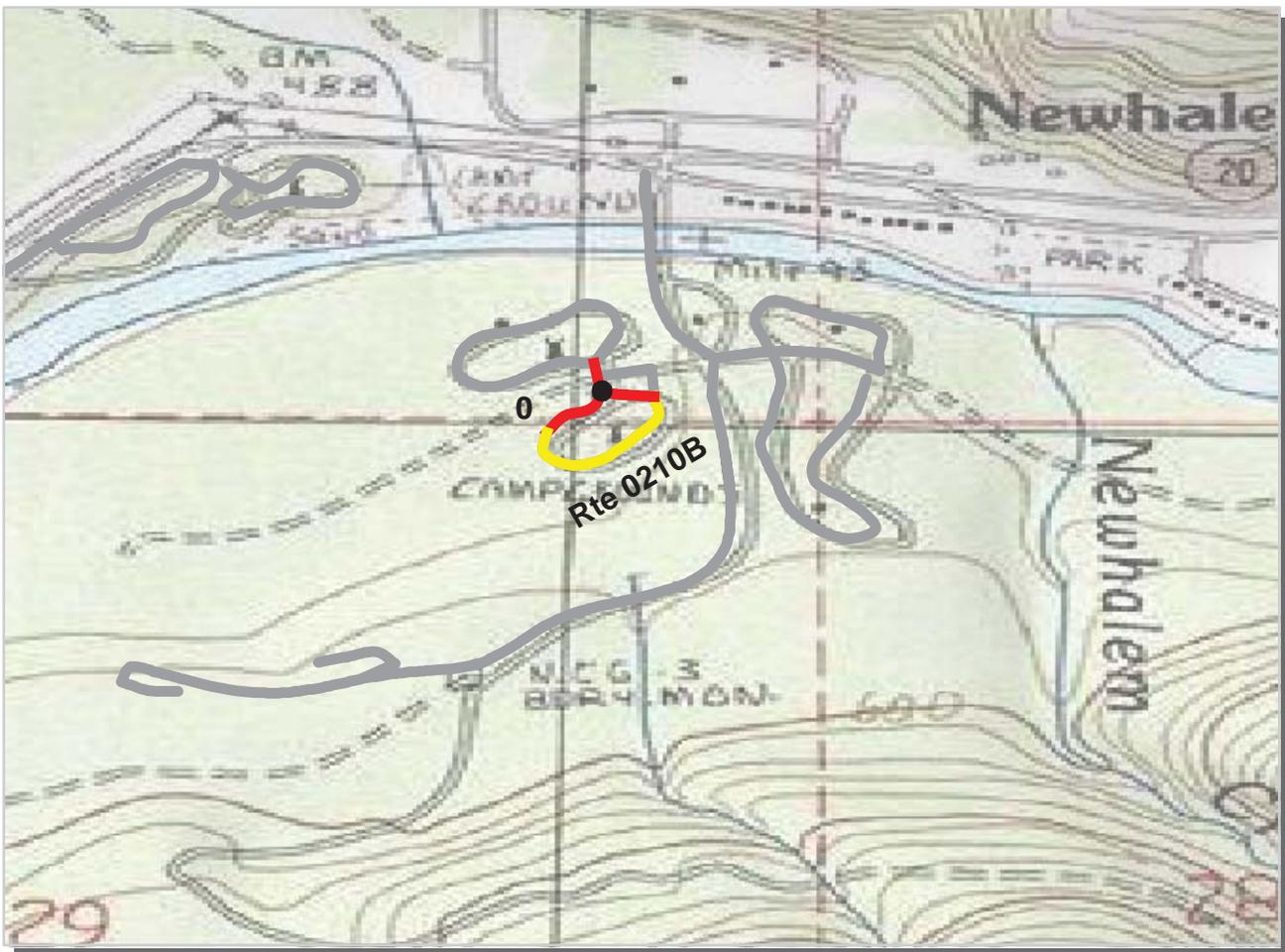
**Pacific West Region**  
**NOCA : North Cascades National Park**

**ROUTE: 0210A Newhalem Creek Campground Loop A** **TOTAL LENGTH: 0.32 Miles**

Section Number	0				
Section Length (mi)	0.32				
AADT	**				
SADT	**				
ADT Date	**				
<b>Cross Section Information</b>					
Number of Lanes	1				
Paved Width (ft)	12				
Lane Width (ft)	12				
Shoulder Width (ft)	0				
<b>Roadway Condition Information</b>					
PCR (Pavement Condition Rating)	80				
RCI (Roughness Condition Index)	56				
SCR (Surface Condition Rating)	83				
Alligator Cracking Index	100				
Rutting Index	85				
Patching Index	99				
Transverse Cracking Index	98				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

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

ROUTE: 0210A Newhalem Creek Campground Loop A



PCR	Poor	<span style="display:inline-block; width:15px; height:15px; background-color:red;"></span>	Fair	<span style="display:inline-block; width:15px; height:15px; background-color:yellow;"></span>	Good	<span style="display:inline-block; width:15px; height:15px; background-color:green;"></span>	Excellent	<span style="display:inline-block; width:15px; height:15px; background-color:blue;"></span>
		(<=60)		(61 - 84)		(85 - 94)		(95 - 100)

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

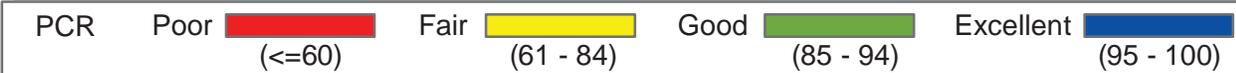
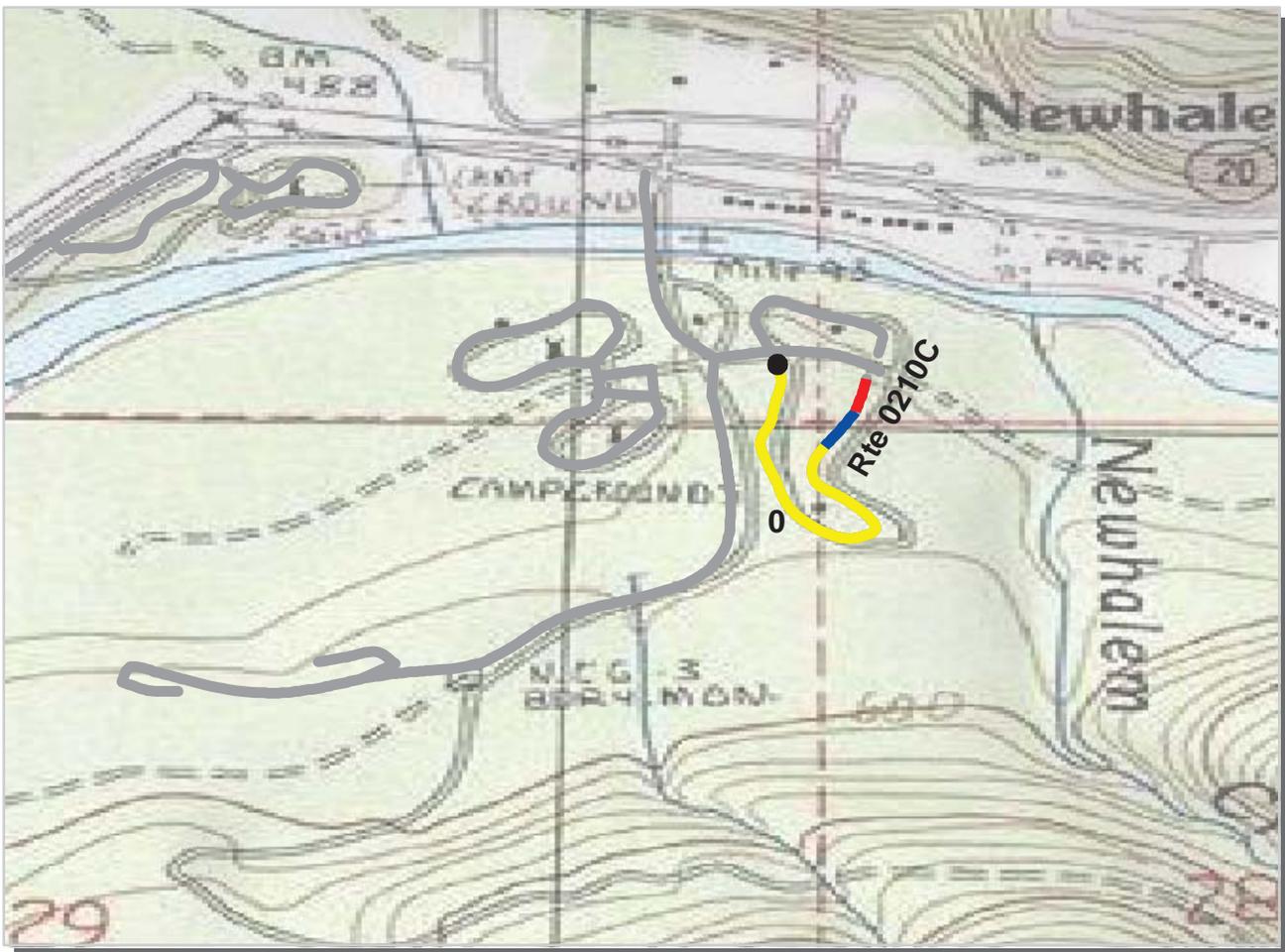
**Pacific West Region**  
**NOCA : North Cascades National Park**

**ROUTE: 0210B Newhalem Creek Campground Loop B** **TOTAL LENGTH: 0.25 Miles**

Section Number	0				
Section Length (mi)	0.25				
AADT	**				
SADT	**				
ADT Date	**				
<b>Cross Section Information</b>					
Number of Lanes	1				
Paved Width (ft)	11				
Lane Width (ft)	11				
Shoulder Width (ft)	0				
<b>Roadway Condition Information</b>					
PCR (Pavement Condition Rating)	58				
RCI (Roughness Condition Index)	51				
SCR (Surface Condition Rating)	63				
Alligator Cracking Index	100				
Rutting Index	65				
Patching Index	100				
Transverse Cracking Index	98				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

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

ROUTE: 0210B Newhalem Creek Campground Loop B



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

**Pacific West Region**

**NOCA : North Cascades National Park**

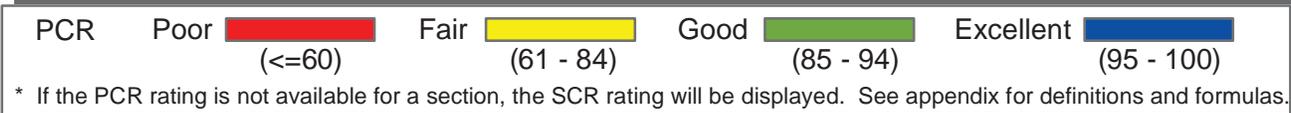
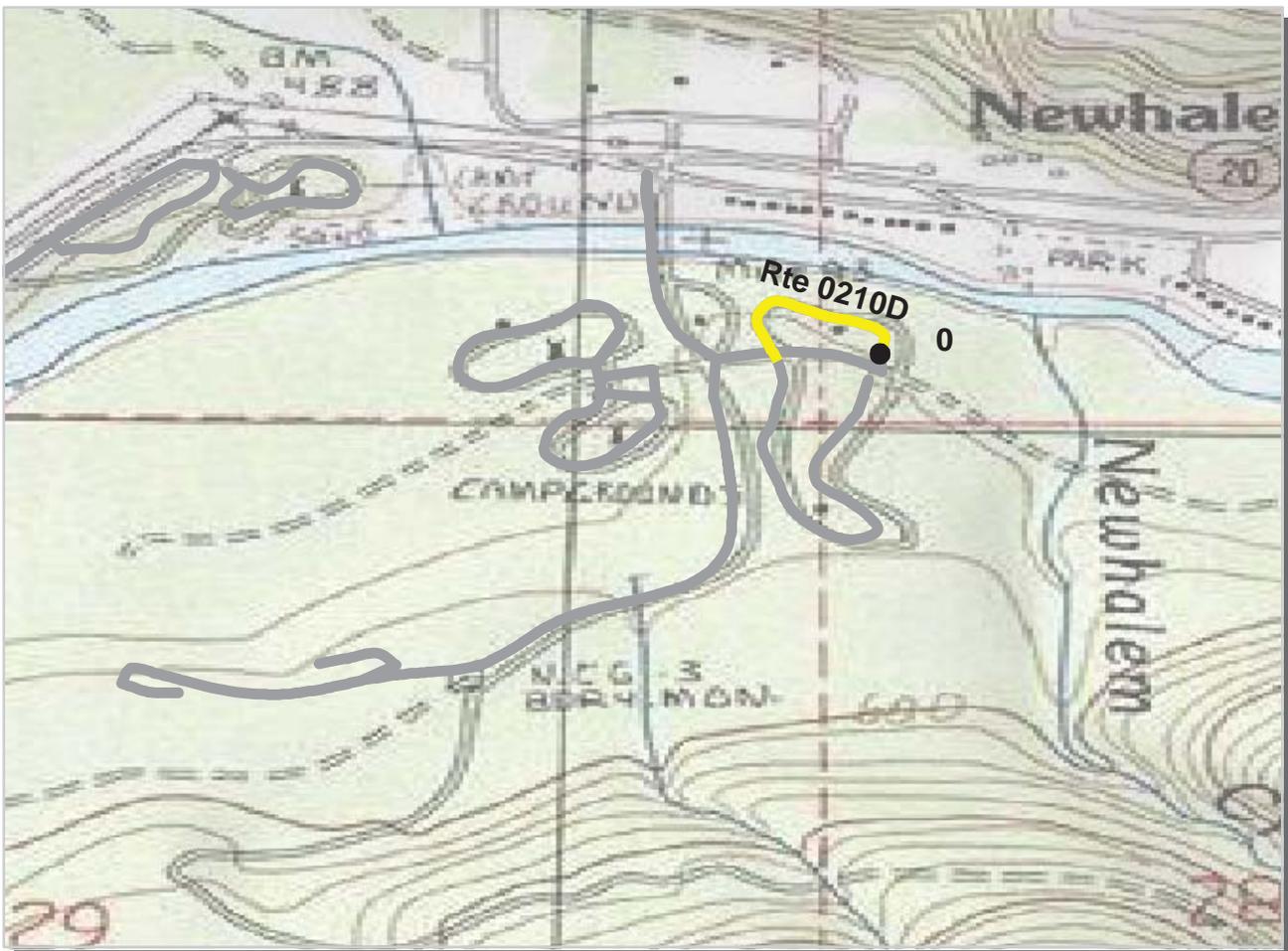
**ROUTE: 0210C Newhalem Creek Campground Loop C**

**TOTAL LENGTH: 0.42 Miles**

Section Number	0				
Section Length (mi)	0.42				
AADT	**				
SADT	**				
ADT Date	**				
<b>Cross Section Information</b>					
Number of Lanes	1				
Paved Width (ft)	12				
Lane Width (ft)	12				
Shoulder Width (ft)	0				
<b>Roadway Condition Information</b>					
PCR (Pavement Condition Rating)	69				
RCI (Roughness Condition Index)	47				
SCR (Surface Condition Rating)	70				
Alligator Cracking Index	100				
Rutting Index	72				
Patching Index	100				
Transverse Cracking Index	97				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

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

ROUTE: 0210C Newhalem Creek Campground Loop C



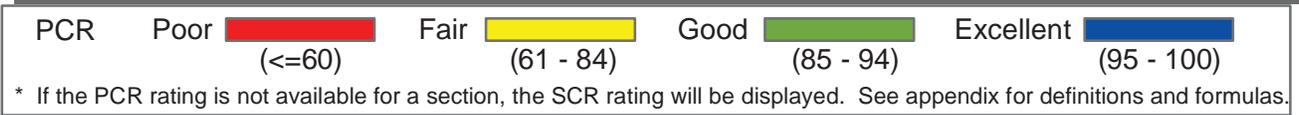
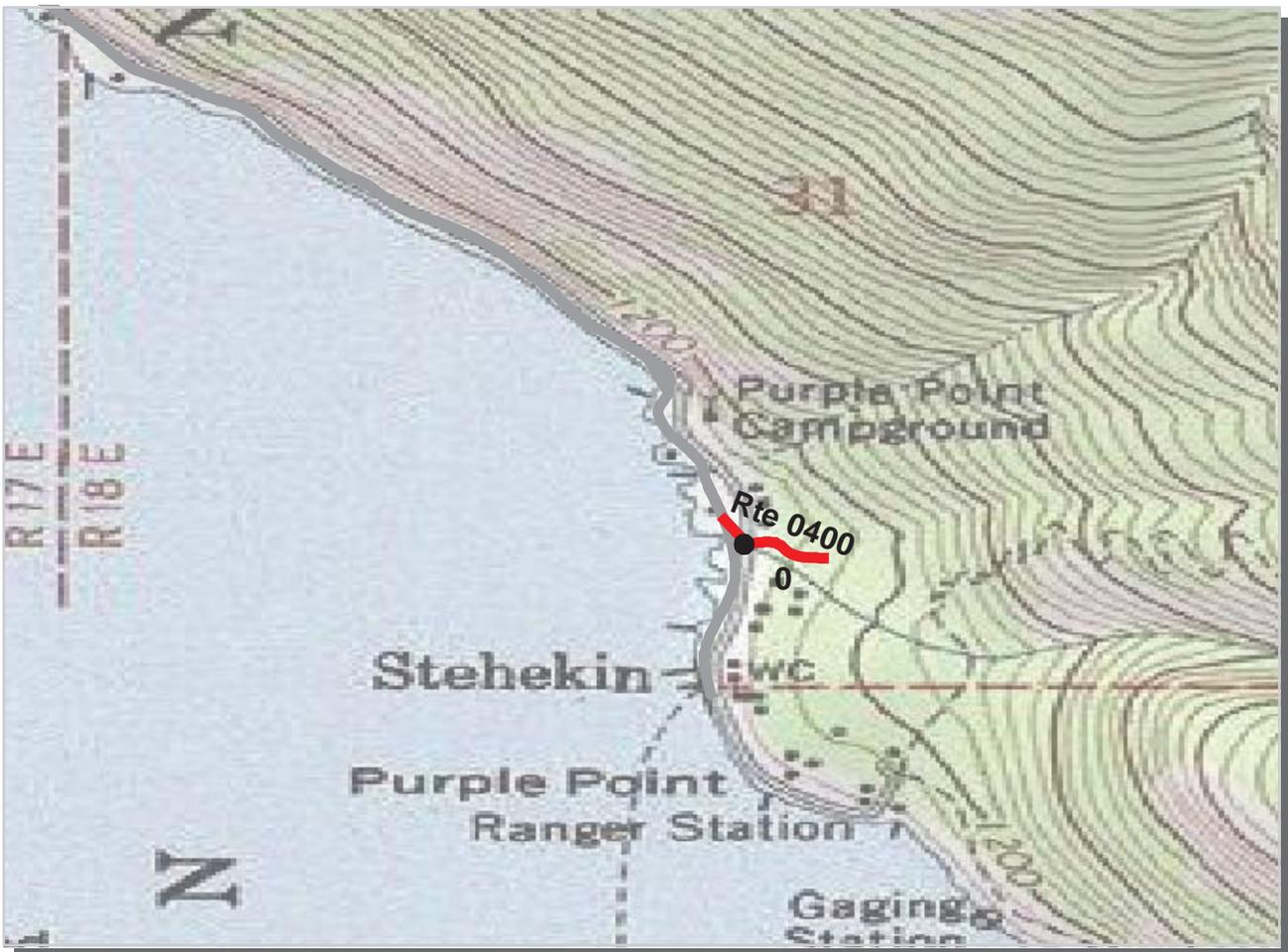
**Pacific West Region**  
**NOCA : North Cascades National Park**

**ROUTE: 0210D Newhalem Creek Group Campground Loop D** **TOTAL LENGTH: 0.17 Miles**

Section Number	0				
Section Length (mi)	0.17				
AADT	**				
SADT	**				
ADT Date	**				
<b>Cross Section Information</b>					
Number of Lanes	1				
Paved Width (ft)	10				
Lane Width (ft)	10				
Shoulder Width (ft)	0				
<b>Roadway Condition Information</b>					
PCR (Pavement Condition Rating)	73				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	73				
Alligator Cracking Index	100				
Rutting Index	74				
Patching Index	100				
Transverse Cracking Index	99				
Longitudinal Cracking Index	99				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

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

ROUTE: 0210D Newhalem Creek Group Campground Loop D



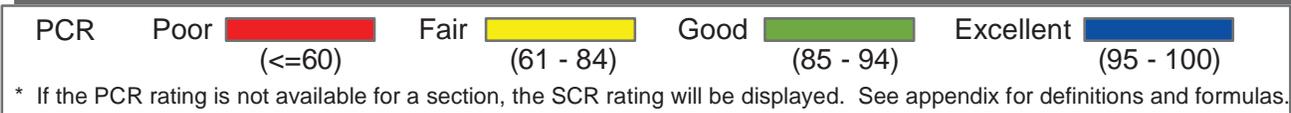
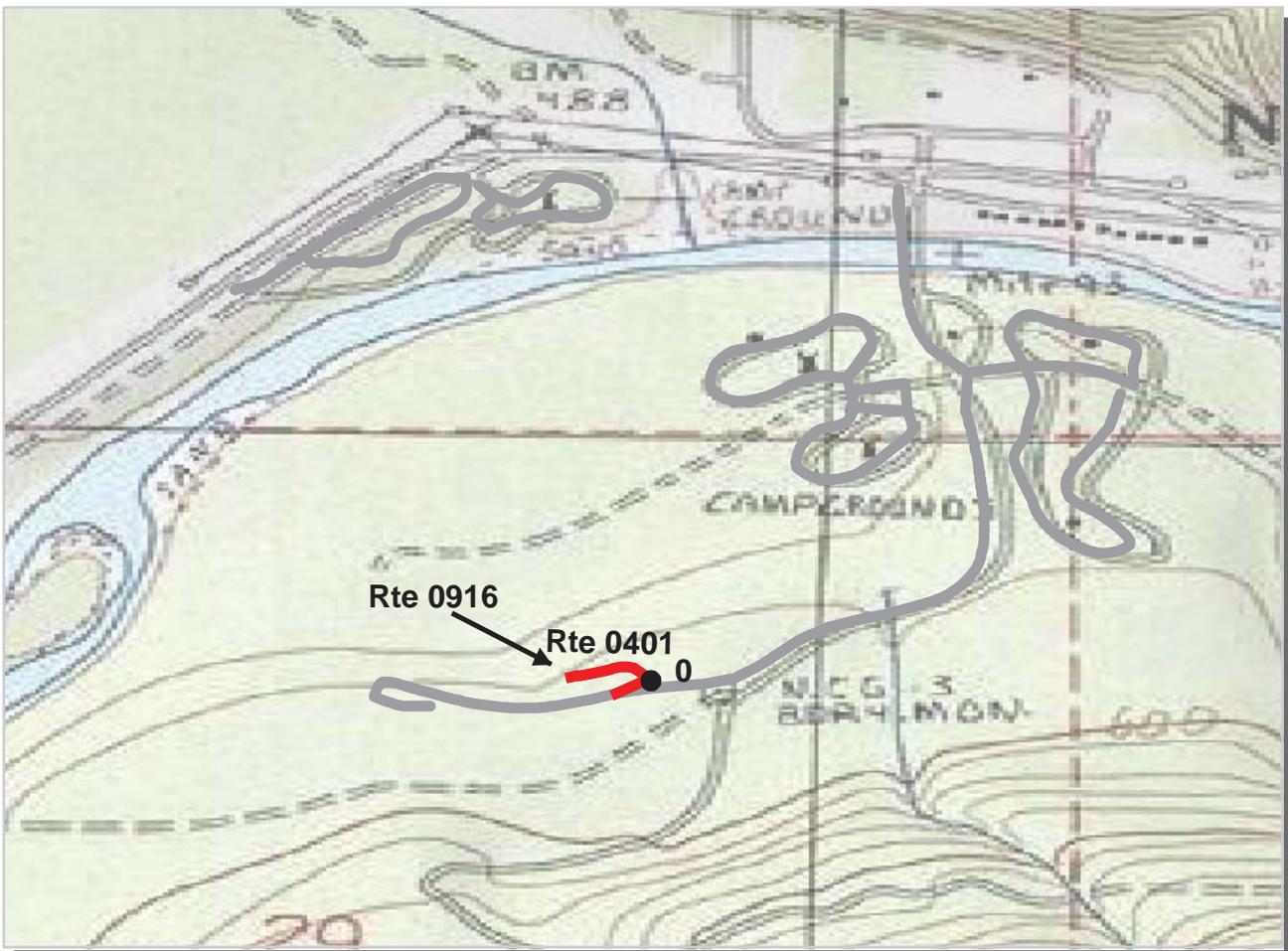
**Pacific West Region**  
**NOCA : North Cascades National Park**

**ROUTE: 0400 Stehekin Service Road** **TOTAL LENGTH: 0.08 Miles**

Section Number	0				
Section Length (mi)	0.08				
AADT	**				
SADT	**				
ADT Date	**				
<b>Cross Section Information</b>					
Number of Lanes	2				
Paved Width (ft)	19				
Lane Width (ft)	9				
Shoulder Width (ft)	0				
<b>Roadway Condition Information</b>					
PCR (Pavement Condition Rating)	26				
RCI (Roughness Condition Index)	NC				
SCR (Surface Condition Rating)	26				
Alligator Cracking Index	100				
Rutting Index	26				
Patching Index	100				
Transverse Cracking Index	100				
Longitudinal Cracking Index	100				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

ROUTE: 0400 Stehekin Service Road

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



**Pacific West Region**  
**NOCA : North Cascades National Park**

**ROUTE: 0401 North Cascades Visitor Center Service Road** **TOTAL LENGTH: 0.07 Miles**

Section Number	0				
Section Length (mi)	0.07				
AADT	**				
SADT	**				
ADT Date	**				
<b>Cross Section Information</b>					
Number of Lanes	2				
Paved Width (ft)	21				
Lane Width (ft)	10				
Shoulder Width (ft)	0				
<b>Roadway Condition Information</b>					
PCR (Pavement Condition Rating)	69				
RCI (Roughness Condition Index)	31				
SCR (Surface Condition Rating)	76				
Alligator Cracking Index	100				
Rutting Index	76				
Patching Index	100				
Transverse Cracking Index	99				
Longitudinal Cracking Index	100				
Shoulder Condition Rating	N/A				
Drainage Condition Rating	GOOD				

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

ROUTE: 0401 North Cascades Visitor Center Service Road



# North Cascades National Park

## Route 0101

Cascade Pass Road

FROM WEST PARK BOUNDARY

Route	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles *	Condition / PCR	Surface Type
0101	1.21	15.00	95515	1.64	GOOD / 90	AS

\* Lane miles are based on 11' lane widths



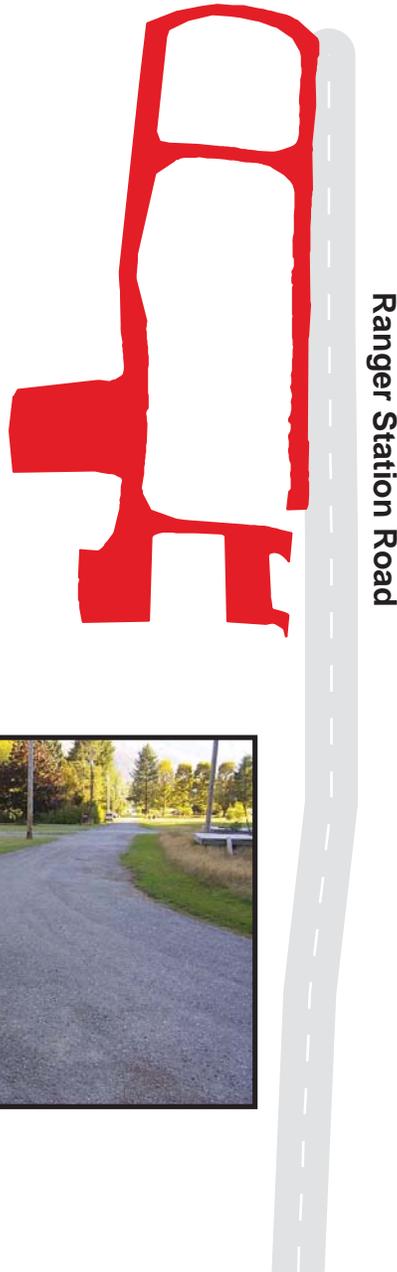
# North Cascades National Park

## Route 0900A

Marblemount Administrative Site A  
FROM RANGER STATION ROAD

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0900A	NonPublic	9/25/2002	59671	1.03	AS	FAIR / 73

\* Lane miles are based on 11' lane widths



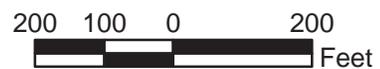
# North Cascades National Park

## Route 0900B

Marblemount Administrative Site B  
FROM RANGER STATION ROAD

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0900B	NonPublic	9/25/2002	11939	0.21	AS	FAIR / 73

\* Lane miles are based on 11' lane widths



# North Cascades National Park

## Route 0901

West Entrance Sign Parking  
FROM STATE HIGHWAY 20

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0901	Public	9/25/2002	5708	0.10	AS	EXCELLENT / 97

\* Lane miles are based on 11' lane widths



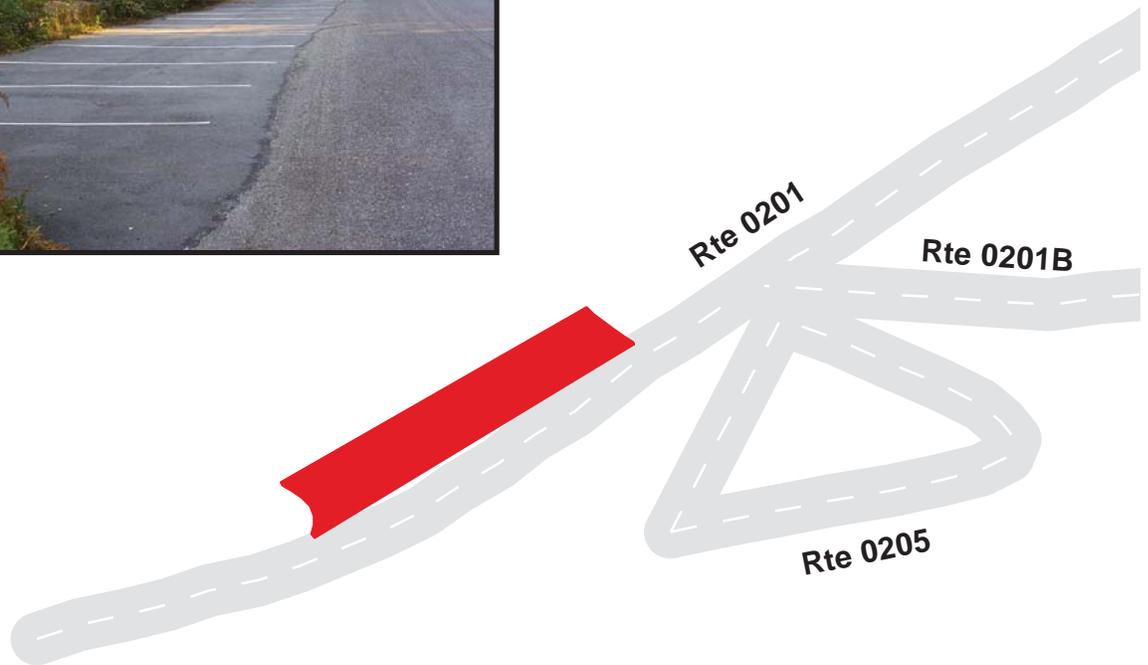
# North Cascades National Park

## Route 0902

Raft Launch Parking  
FROM ROUTE 0201

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0902	Public	9/25/2002	2327	0.04	AS	GOOD / 90

\* Lane miles are based on 11' lane widths



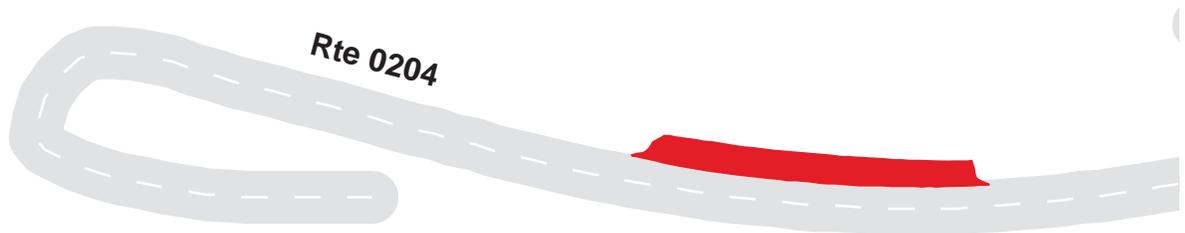
# North Cascades National Park

## Route 0903A

North Cascades Visitor Center Parking A  
FROM ROUTE 0204

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0903A	Public	9/25/2002	4570	0.08	AS	EXCELLENT / 97

\* Lane miles are based on 11' lane widths



# North Cascades National Park

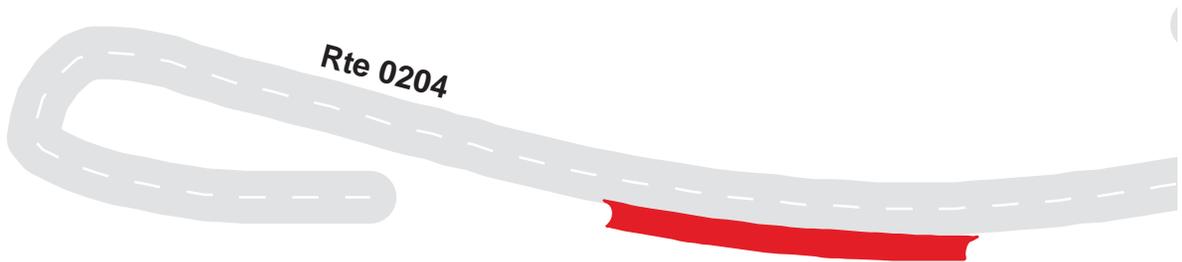
## Route 0903B

North Cascades Visitor Center Parking B

FROM ROUTE 0204

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0903B	Public	9/25/2002	4668	0.08	AS	EXCELLENT / 97

\* Lane miles are based on 11' lane widths



# North Cascades National Park

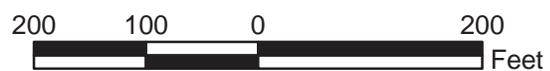
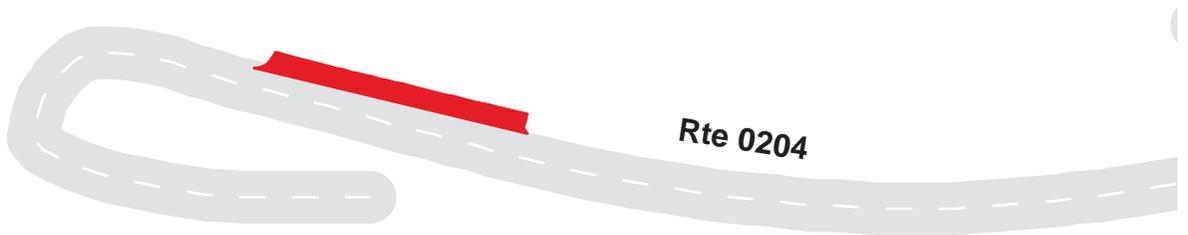
## Route 0903C

North Cascades Visitor Center Parking C

FROM ROUTE 0204

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0903C	Public	9/25/2002	2715	0.05	AS	EXCELLENT / 97

\* Lane miles are based on 11' lane widths



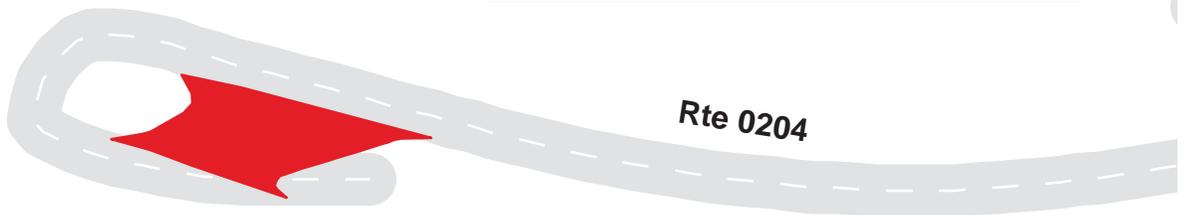
# North Cascades National Park

## Route 0903D

North Cascades Visitor Center Parking D  
FROM ROUTE 0204

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0903D	Public	9/25/2002	8178	0.14	AS	EXCELLENT / 97

\* Lane miles are based on 11' lane widths



# North Cascades National Park

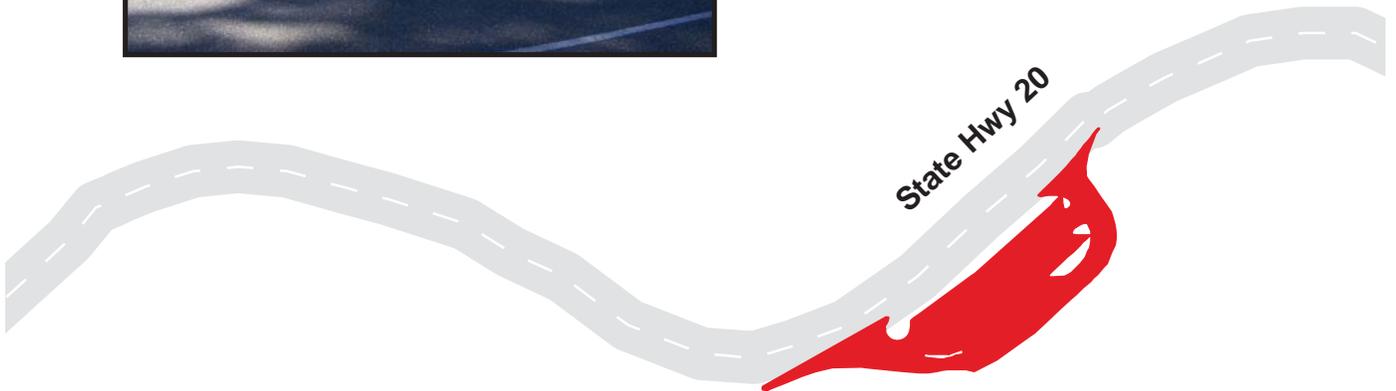
## Route 0904

Gorge Creek Overlook Trailhead Parking

FROM STATE HIGHWAY 20 AT MILEPOST 123.2 ON RIGHT

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0904	Public	9/25/2002	28842	0.50	AS	GOOD / 90

\* Lane miles are based on 11' lane widths



# North Cascades National Park

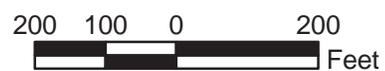
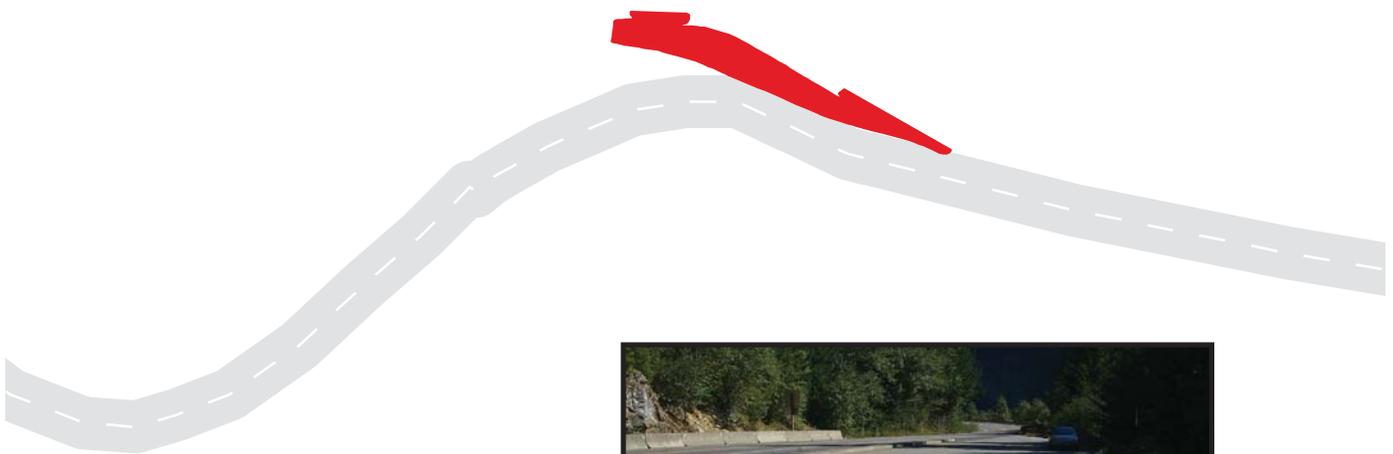
## Route 0905

Gorge Creek Photo-Op Parking

FROM STATE HIGHWAY 20 AT MILEPOST 123.2 ON RIGHT

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0905	Public	9/25/2002	12545	0.22	AS	EXCELLENT / 97

\* Lane miles are based on 11' lane widths



# North Cascades National Park

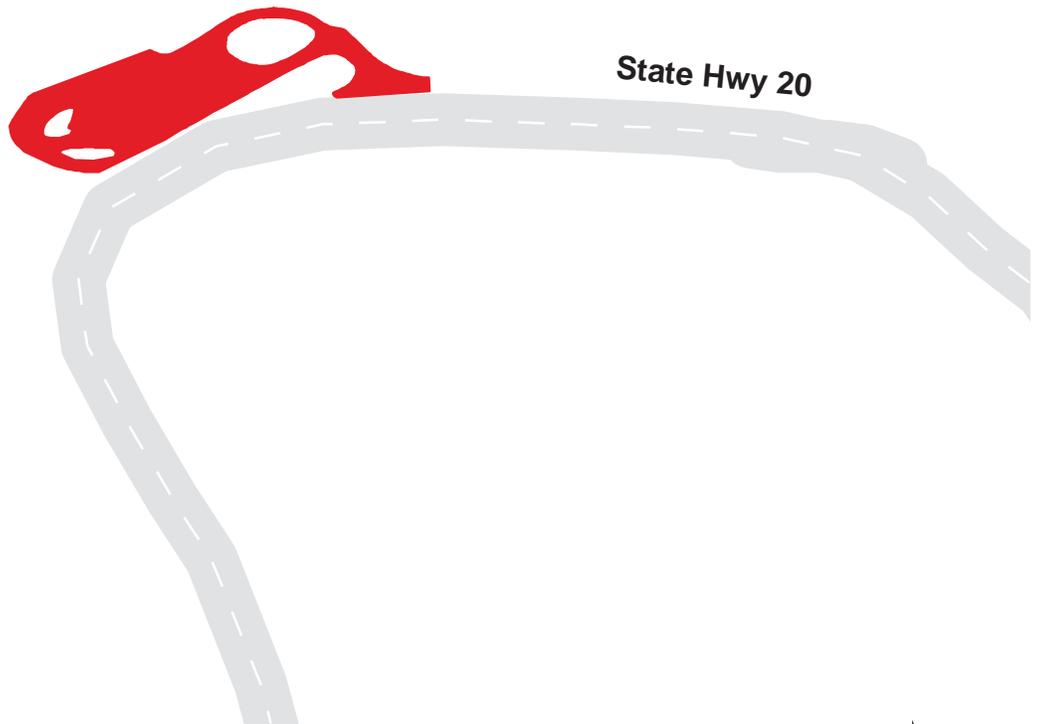
## Route 0906

Diablo Lake Overlook

FROM STATE HIGHWAY 20 AT MILEPOST 131.5 ON LEFT

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0906	Public	9/25/2002	58071	1.00	AS	FAIR / 73

\* Lane miles are based on 11' lane widths



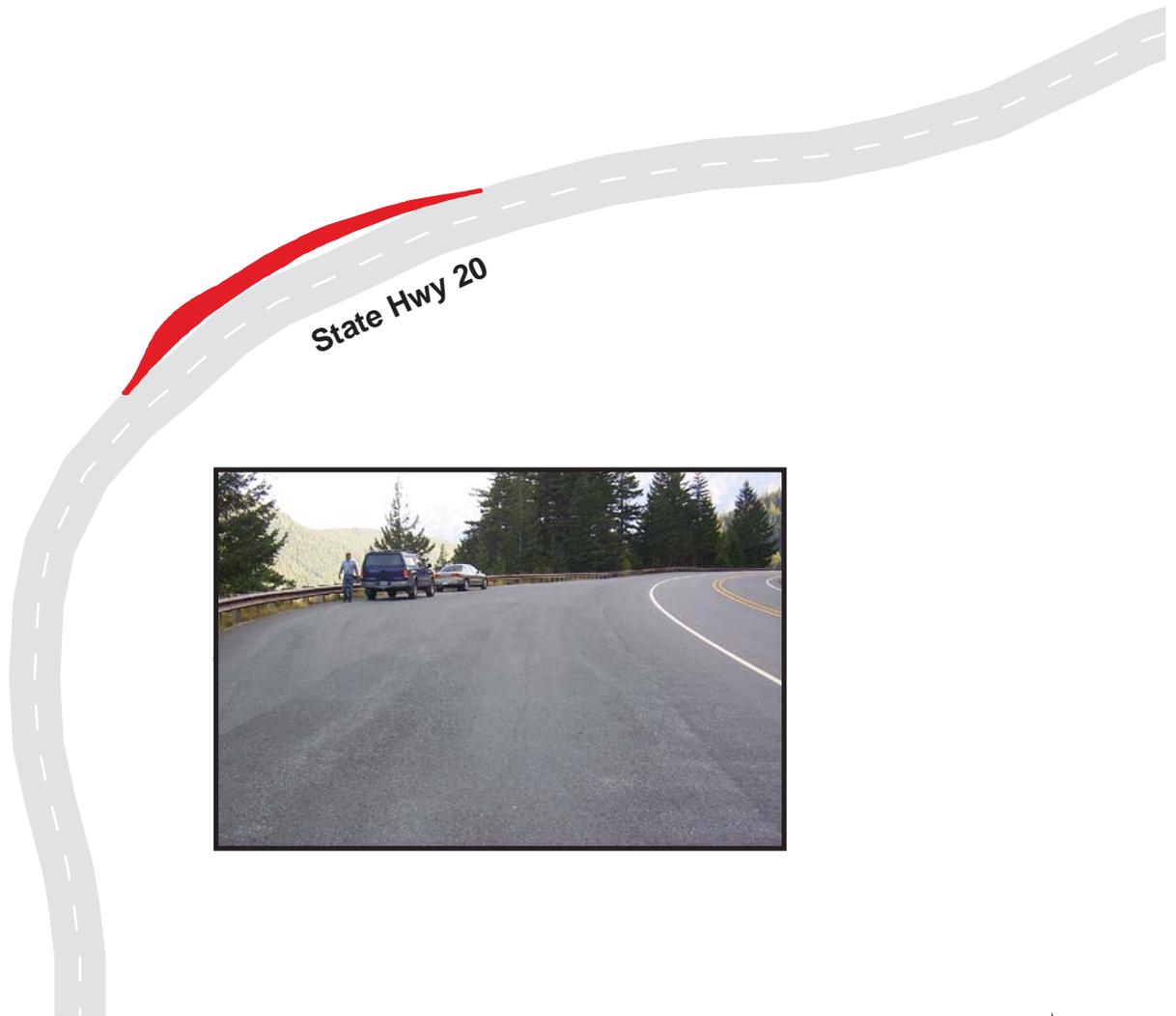
200 100 0 200  
Feet



**North Cascades National Park**  
**Route 0907**  
 Interpretive Pullout  
 FROM STATE HIGHWAY 20 AT MILEPOST 133

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0907	Public	9/25/2002	17165	0.30	AS	EXCELLENT / 97

\* Lane miles are based on 11' lane widths



# North Cascades National Park

## Route 0908

Ross Dam Trailhead Parking

FROM STATE HIGHWAY 20 AT MILEPOST 134.25 ON LEFT

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0908	Public	9/25/2002	11766	0.20	AS	EXCELLENT / 97

\* Lane miles are based on 11' lane widths



# North Cascades National Park

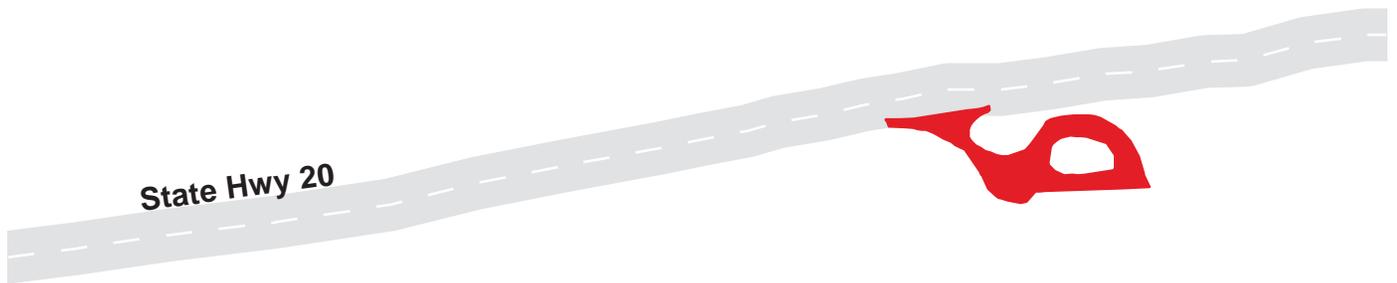
## Route 0909

Happy Creek Nature Trail Parking

FROM STATE HIGHWAY 20 AT MILEPOST 134 ON RIGHT

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0909	Public	9/25/2002	9726	0.17	AS	GOOD / 90

\* Lane miles are based on 11' lane widths



# North Cascades National Park

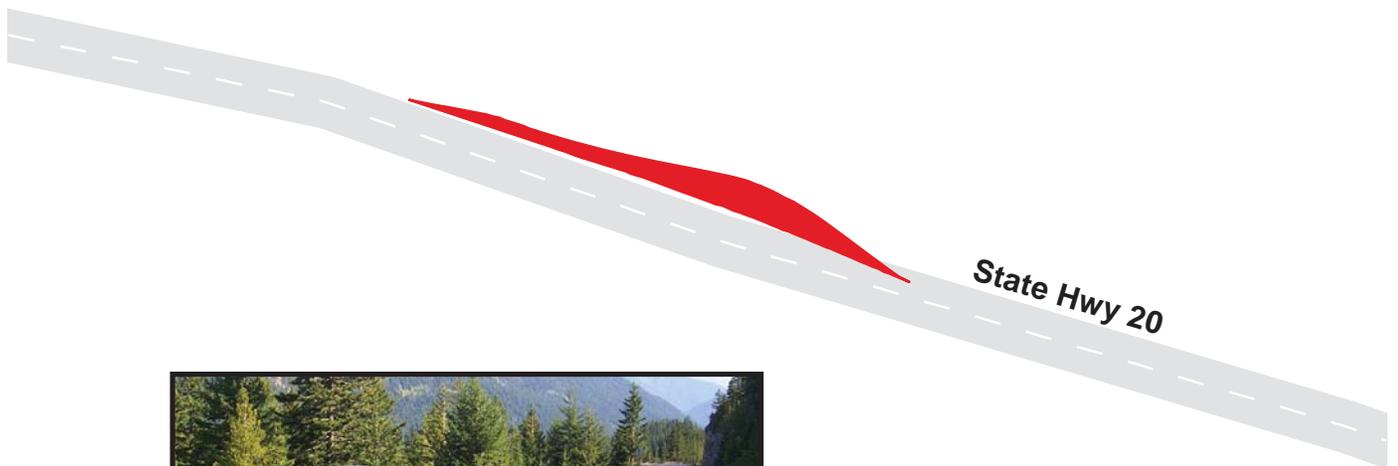
## Route 0910A

Ross Lake Overlook A

FROM STATE HIGHWAY 20 AT MILEPOST 135.5 ON LEFT

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0910A	Public	9/25/2002	9586	0.17	AS	EXCELLENT / 97

\* Lane miles are based on 11' lane widths



# North Cascades National Park

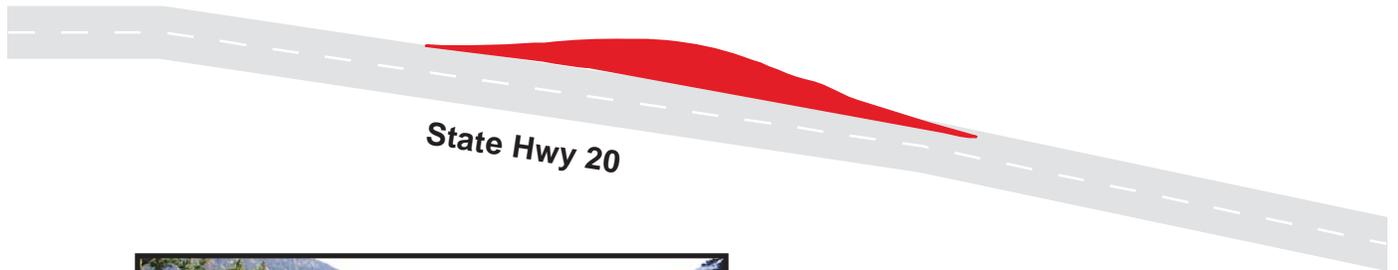
## Route 0910B

Ross Lake Overlook B

FROM STATE HIGHWAY 20 AT MILEPOST 135.5 ON LEFT

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0910B	Public	9/25/2002	4684	0.08	AS	EXCELLENT / 97

\* Lane miles are based on 11' lane widths



# North Cascades National Park

## Route 0912

Newhalem Creek Registration Parking  
FROM ROUTE 0208

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0912	Public	9/25/2002	901	0.02	AS	EXCELLENT / 97

\* Lane miles are based on 11' lane widths



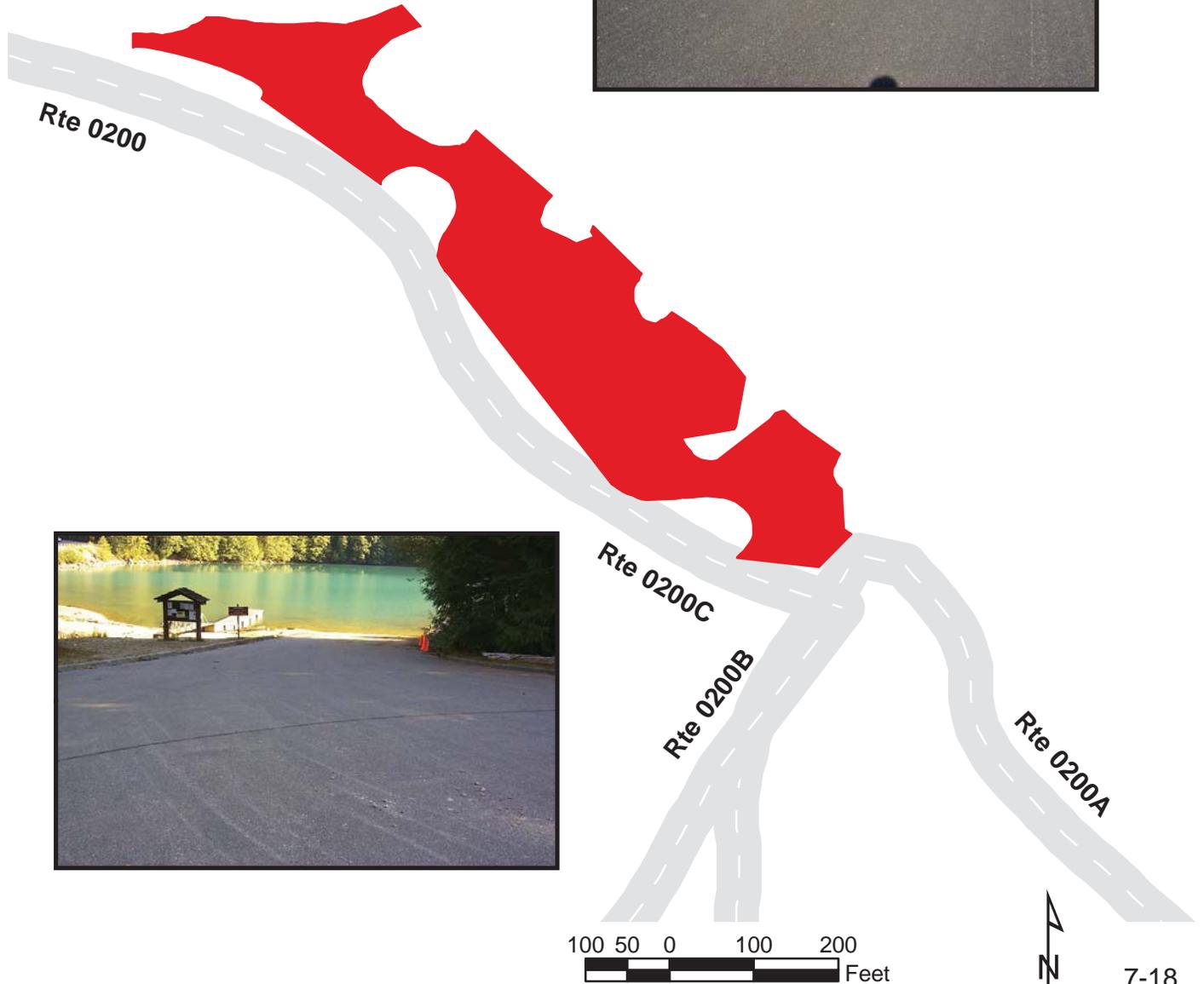
# North Cascades National Park

## Route 0914

Colonial Creek Campground Access Parking  
FROM ROUTE 0200

Route	Public / NonPublic	Date Visited	Area (sq ft)	Lane Miles *	Surface Type	Condition / PCR
0914	Public	9/25/2002	81496	1.40	AS	FAIR / 73

\* Lane miles are based on 11' lane widths



# ***NOCA: PARKWIDE MAINTENANCE FEATURES SUMMARY***

<b><i>FEATURE</i></b>	<b><i>PARK TOTAL</i></b>	<b><i>UNIT</i></b>
BRIDGE	4	EACH
CATTLE GUARD	0	EACH
CULVERT	38	EACH
CURB	3,427	LINEAR FEET
DROP INLET	4	EACH
GUARD WALL	0	LINEAR FEET
GUARDRAIL	1,209	LINEAR FEET
INTERSECTION	158	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	0	EACH
PAVED DITCH	0	LINEAR FEET
PULLOUT	5	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	0	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	0	EACH
TUNNEL	0	EACH
TURNOUT	0	LINEAR FEET

# ***NOCA: ROUTE MAINTENANCE FEATURES SUMMARY***

## ***ROUTE 0010 : STEHEKIN VALLEY ROAD***

<b><i>FEATURE</i></b>	<b><i>ROUTE TOTAL</i></b>	<b><i>UNIT</i></b>
BRIDGE	2	EACH
CATTLE GUARD	0	EACH
CULVERT	20	EACH
CURB	0	LINEAR FEET
DROP INLET	0	EACH
GUARD WALL	0	LINEAR FEET
GUARDRAIL	0	LINEAR FEET
INTERSECTION	24	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	0	EACH
PAVED DITCH	0	LINEAR FEET
PULLOUT	0	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	0	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	0	EACH
TUNNEL	0	EACH
TURNOUT	0	LINEAR FEET

# ***NOCA: ROUTE MAINTENANCE FEATURES SUMMARY***

## ***ROUTE 0100 : COMPANY CREEK ROAD***

<b><i>FEATURE</i></b>	<b><i>ROUTE TOTAL</i></b>	<b><i>UNIT</i></b>
BRIDGE	1	EACH
CATTLE GUARD	0	EACH
CULVERT	0	EACH
CURB	0	LINEAR FEET
DROP INLET	0	EACH
GUARD WALL	0	LINEAR FEET
GUARDRAIL	0	LINEAR FEET
INTERSECTION	1	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	0	EACH
PAVED DITCH	0	LINEAR FEET
PULLOUT	0	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	0	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	0	EACH
TUNNEL	0	EACH
TURNOUT	0	LINEAR FEET

# ***NOCA: ROUTE MAINTENANCE FEATURES SUMMARY***

## ***ROUTE 0105 : ENVIRONMENTAL LEARNING CENTER ACCESS ROAD***

<b><i>FEATURE</i></b>	<b><i>ROUTE TOTAL</i></b>	<b><i>UNIT</i></b>
BRIDGE	0	EACH
CATTLE GUARD	0	EACH
CULVERT	7	EACH
CURB	0	LINEAR FEET
DROP INLET	0	EACH
GUARD WALL	0	LINEAR FEET
GUARDRAIL	32	LINEAR FEET
INTERSECTION	9	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	0	EACH
PAVED DITCH	0	LINEAR FEET
PULLOUT	1	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	0	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	0	EACH
TUNNEL	0	EACH
TURNOUT	0	LINEAR FEET

# ***NOCA: ROUTE MAINTENANCE FEATURES SUMMARY***

## ***ROUTE 0200 : COLONIAL CREEK CAMPGROUND ACCESS SOUTH***

<b><i>FEATURE</i></b>	<b><i>ROUTE TOTAL</i></b>	<b><i>UNIT</i></b>
BRIDGE	0	EACH
CATTLE GUARD	0	EACH
CULVERT	0	EACH
CURB	0	LINEAR FEET
DROP INLET	0	EACH
GUARD WALL	0	LINEAR FEET
GUARDRAIL	0	LINEAR FEET
INTERSECTION	3	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	0	EACH
PAVED DITCH	0	LINEAR FEET
PULLOUT	0	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	0	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	0	EACH
TUNNEL	0	EACH
TURNOUT	0	LINEAR FEET

# ***NOCA: ROUTE MAINTENANCE FEATURES SUMMARY***

## ***ROUTE 0200A : COLONIAL CREEK CAMPGROUND LOOP A***

<b><i>FEATURE</i></b>	<b><i>ROUTE TOTAL</i></b>	<b><i>UNIT</i></b>
BRIDGE	0	EACH
CATTLE GUARD	0	EACH
CULVERT	5	EACH
CURB	0	LINEAR FEET
DROP INLET	0	EACH
GUARD WALL	0	LINEAR FEET
GUARDRAIL	0	LINEAR FEET
INTERSECTION	22	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	0	EACH
PAVED DITCH	0	LINEAR FEET
PULLOUT	2	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	0	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	0	EACH
TUNNEL	0	EACH
TURNOUT	0	LINEAR FEET

# ***NOCA: ROUTE MAINTENANCE FEATURES SUMMARY***

## ***ROUTE 0200B : COLONIAL CREEK CAMPGROUND LOOP B***

<b><i>FEATURE</i></b>	<b><i>ROUTE TOTAL</i></b>	<b><i>UNIT</i></b>
BRIDGE	0	EACH
CATTLE GUARD	0	EACH
CULVERT	3	EACH
CURB	0	LINEAR FEET
DROP INLET	0	EACH
GUARD WALL	0	LINEAR FEET
GUARDRAIL	0	LINEAR FEET
INTERSECTION	5	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	0	EACH
PAVED DITCH	0	LINEAR FEET
PULLOUT	0	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	0	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	0	EACH
TUNNEL	0	EACH
TURNOUT	0	LINEAR FEET

# ***NOCA: ROUTE MAINTENANCE FEATURES SUMMARY***

## ***ROUTE 0200C : DUMP STATION ACCESS ROAD***

<b><i>FEATURE</i></b>	<b><i>ROUTE TOTAL</i></b>	<b><i>UNIT</i></b>
BRIDGE	0	EACH
CATTLE GUARD	0	EACH
CULVERT	0	EACH
CURB	0	LINEAR FEET
DROP INLET	0	EACH
GUARD WALL	0	LINEAR FEET
GUARDRAIL	0	LINEAR FEET
INTERSECTION	4	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	0	EACH
PAVED DITCH	0	LINEAR FEET
PULLOUT	0	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	0	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	0	EACH
TUNNEL	0	EACH
TURNOUT	0	LINEAR FEET

# ***NOCA: ROUTE MAINTENANCE FEATURES SUMMARY***

## ***ROUTE 0201 : GOODELL CREEK CAMPGROUND ACCESS ROAD***

<b><i>FEATURE</i></b>	<b><i>ROUTE TOTAL</i></b>	<b><i>UNIT</i></b>
BRIDGE	0	EACH
CATTLE GUARD	0	EACH
CULVERT	1	EACH
CURB	0	LINEAR FEET
DROP INLET	0	EACH
GUARD WALL	0	LINEAR FEET
GUARDRAIL	0	LINEAR FEET
INTERSECTION	6	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	0	EACH
PAVED DITCH	0	LINEAR FEET
PULLOUT	0	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	0	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	0	EACH
TUNNEL	0	EACH
TURNOUT	0	LINEAR FEET

# ***NOCA: ROUTE MAINTENANCE FEATURES SUMMARY***

## ***ROUTE 0201A : GOODELL CREEK CAMPGROUND LOOP A***

<b><i>FEATURE</i></b>	<b><i>ROUTE TOTAL</i></b>	<b><i>UNIT</i></b>
BRIDGE	0	EACH
CATTLE GUARD	0	EACH
CULVERT	0	EACH
CURB	0	LINEAR FEET
DROP INLET	0	EACH
GUARD WALL	0	LINEAR FEET
GUARDRAIL	0	LINEAR FEET
INTERSECTION	5	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	0	EACH
PAVED DITCH	0	LINEAR FEET
PULLOUT	0	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	0	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	0	EACH
TUNNEL	0	EACH
TURNOUT	0	LINEAR FEET

# ***NOCA: ROUTE MAINTENANCE FEATURES SUMMARY***

## ***ROUTE 0201B : GOODELL CREEK CAMPGROUND LOOP B***

<b><i>FEATURE</i></b>	<b><i>ROUTE TOTAL</i></b>	<b><i>UNIT</i></b>
BRIDGE	0	EACH
CATTLE GUARD	0	EACH
CULVERT	0	EACH
CURB	0	LINEAR FEET
DROP INLET	0	EACH
GUARD WALL	0	LINEAR FEET
GUARDRAIL	0	LINEAR FEET
INTERSECTION	5	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	0	EACH
PAVED DITCH	0	LINEAR FEET
PULLOUT	0	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	0	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	0	EACH
TUNNEL	0	EACH
TURNOUT	0	LINEAR FEET

# ***NOCA: ROUTE MAINTENANCE FEATURES SUMMARY***

***ROUTE 0202 : NEWHALEM CREEK CAMPGROUND ACCESS ROAD***

<b><i>FEATURE</i></b>	<b><i>ROUTE TOTAL</i></b>	<b><i>UNIT</i></b>
BRIDGE	1	EACH
CATTLE GUARD	0	EACH
CULVERT	0	EACH
CURB	121	LINEAR FEET
DROP INLET	0	EACH
GUARD WALL	0	LINEAR FEET
GUARDRAIL	649	LINEAR FEET
INTERSECTION	2	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	0	EACH
PAVED DITCH	0	LINEAR FEET
PULLOUT	0	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	0	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	0	EACH
TUNNEL	0	EACH
TURNOUT	0	LINEAR FEET

# ***NOCA: ROUTE MAINTENANCE FEATURES SUMMARY***

## ***ROUTE 0204 : NORTH CASCADES VISITOR CENTER ACCESS ROAD***

<b><i>FEATURE</i></b>	<b><i>ROUTE TOTAL</i></b>	<b><i>UNIT</i></b>
BRIDGE	0	EACH
CATTLE GUARD	0	EACH
CULVERT	1	EACH
CURB	2,276	LINEAR FEET
DROP INLET	4	EACH
GUARD WALL	0	LINEAR FEET
GUARDRAIL	528	LINEAR FEET
INTERSECTION	11	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	0	EACH
PAVED DITCH	0	LINEAR FEET
PULLOUT	1	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	0	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	0	EACH
TUNNEL	0	EACH
TURNOUT	0	LINEAR FEET

# ***NOCA: ROUTE MAINTENANCE FEATURES SUMMARY***

## ***ROUTE 0205 : RAFT LAUNCH LOOP***

<b><i>FEATURE</i></b>	<b><i>ROUTE TOTAL</i></b>	<b><i>UNIT</i></b>
BRIDGE	0	EACH
CATTLE GUARD	0	EACH
CULVERT	0	EACH
CURB	0	LINEAR FEET
DROP INLET	0	EACH
GUARD WALL	0	LINEAR FEET
GUARDRAIL	0	LINEAR FEET
INTERSECTION	4	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	0	EACH
PAVED DITCH	0	LINEAR FEET
PULLOUT	0	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	0	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	0	EACH
TUNNEL	0	EACH
TURNOUT	0	LINEAR FEET

# ***NOCA: ROUTE MAINTENANCE FEATURES SUMMARY***

## ***ROUTE 0206 : NEWHALEM CREEK CAMPGROUND ACCESS TO LOOP***

<b><i>FEATURE</i></b>	<b><i>ROUTE TOTAL</i></b>	<b><i>UNIT</i></b>
BRIDGE	0	EACH
CATTLE GUARD	0	EACH
CULVERT	0	EACH
CURB	32	LINEAR FEET
DROP INLET	0	EACH
GUARD WALL	0	LINEAR FEET
GUARDRAIL	0	LINEAR FEET
INTERSECTION	3	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	0	EACH
PAVED DITCH	0	LINEAR FEET
PULLOUT	0	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	0	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	0	EACH
TUNNEL	0	EACH
TURNOUT	0	LINEAR FEET

# ***NOCA: ROUTE MAINTENANCE FEATURES SUMMARY***

## ***ROUTE 0207 : NEWHALEM CREEK CAMPGROUND ACCESS TO LOOP***

<b><i>FEATURE</i></b>	<b><i>ROUTE TOTAL</i></b>	<b><i>UNIT</i></b>
BRIDGE	0	EACH
CATTLE GUARD	0	EACH
CULVERT	0	EACH
CURB	26	LINEAR FEET
DROP INLET	0	EACH
GUARD WALL	0	LINEAR FEET
GUARDRAIL	0	LINEAR FEET
INTERSECTION	6	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	0	EACH
PAVED DITCH	0	LINEAR FEET
PULLOUT	0	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	0	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	0	EACH
TUNNEL	0	EACH
TURNOUT	0	LINEAR FEET

# ***NOCA: ROUTE MAINTENANCE FEATURES SUMMARY***

***ROUTE 0208 : NEWHALEM CREEK KIOSK/DUMP STATION LOOP***

<b><i>FEATURE</i></b>	<b><i>ROUTE TOTAL</i></b>	<b><i>UNIT</i></b>
BRIDGE	0	EACH
CATTLE GUARD	0	EACH
CULVERT	0	EACH
CURB	972	LINEAR FEET
DROP INLET	0	EACH
GUARD WALL	0	LINEAR FEET
GUARDRAIL	0	LINEAR FEET
INTERSECTION	9	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	0	EACH
PAVED DITCH	0	LINEAR FEET
PULLOUT	0	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	0	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	0	EACH
TUNNEL	0	EACH
TURNOUT	0	LINEAR FEET

# ***NOCA: ROUTE MAINTENANCE FEATURES SUMMARY***

## ***ROUTE 0209A : COLONIAL CREEK CAMPGROUND NORTH LOOP A***

<b><i>FEATURE</i></b>	<b><i>ROUTE TOTAL</i></b>	<b><i>UNIT</i></b>
BRIDGE	0	EACH
CATTLE GUARD	0	EACH
CULVERT	1	EACH
CURB	0	LINEAR FEET
DROP INLET	0	EACH
GUARD WALL	0	LINEAR FEET
GUARDRAIL	0	LINEAR FEET
INTERSECTION	10	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	0	EACH
PAVED DITCH	0	LINEAR FEET
PULLOUT	0	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	0	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	0	EACH
TUNNEL	0	EACH
TURNOUT	0	LINEAR FEET

# ***NOCA: ROUTE MAINTENANCE FEATURES SUMMARY***

## ***ROUTE 0209B : COLONIAL CREEK CAMPGROUND NORTH LOOP B***

<b><i>FEATURE</i></b>	<b><i>ROUTE TOTAL</i></b>	<b><i>UNIT</i></b>
BRIDGE	0	EACH
CATTLE GUARD	0	EACH
CULVERT	0	EACH
CURB	0	LINEAR FEET
DROP INLET	0	EACH
GUARD WALL	0	LINEAR FEET
GUARDRAIL	0	LINEAR FEET
INTERSECTION	2	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	0	EACH
PAVED DITCH	0	LINEAR FEET
PULLOUT	0	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	0	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	0	EACH
TUNNEL	0	EACH
TURNOUT	0	LINEAR FEET

# ***NOCA: ROUTE MAINTENANCE FEATURES SUMMARY***

## ***ROUTE 0210A : NEWHALEM CREEK CAMPGROUND LOOP A***

<b><i>FEATURE</i></b>	<b><i>ROUTE TOTAL</i></b>	<b><i>UNIT</i></b>
BRIDGE	0	EACH
CATTLE GUARD	0	EACH
CULVERT	0	EACH
CURB	0	LINEAR FEET
DROP INLET	0	EACH
GUARD WALL	0	LINEAR FEET
GUARDRAIL	0	LINEAR FEET
INTERSECTION	8	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	0	EACH
PAVED DITCH	0	LINEAR FEET
PULLOUT	0	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	0	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	0	EACH
TUNNEL	0	EACH
TURNOUT	0	LINEAR FEET

# ***NOCA: ROUTE MAINTENANCE FEATURES SUMMARY***

## ***ROUTE 0210B : NEWHALEM CREEK CAMPGROUND LOOP B***

<b><i>FEATURE</i></b>	<b><i>ROUTE TOTAL</i></b>	<b><i>UNIT</i></b>
BRIDGE	0	EACH
CATTLE GUARD	0	EACH
CULVERT	0	EACH
CURB	0	LINEAR FEET
DROP INLET	0	EACH
GUARD WALL	0	LINEAR FEET
GUARDRAIL	0	LINEAR FEET
INTERSECTION	3	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	0	EACH
PAVED DITCH	0	LINEAR FEET
PULLOUT	0	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	0	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	0	EACH
TUNNEL	0	EACH
TURNOUT	0	LINEAR FEET

# ***NOCA: ROUTE MAINTENANCE FEATURES SUMMARY***

## ***ROUTE 0210C : NEWHALEM CREEK CAMPGROUND LOOP C***

<b><i>FEATURE</i></b>	<b><i>ROUTE TOTAL</i></b>	<b><i>UNIT</i></b>
BRIDGE	0	EACH
CATTLE GUARD	0	EACH
CULVERT	0	EACH
CURB	0	LINEAR FEET
DROP INLET	0	EACH
GUARD WALL	0	LINEAR FEET
GUARDRAIL	0	LINEAR FEET
INTERSECTION	4	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	0	EACH
PAVED DITCH	0	LINEAR FEET
PULLOUT	0	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	0	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	0	EACH
TUNNEL	0	EACH
TURNOUT	0	LINEAR FEET

# ***NOCA: ROUTE MAINTENANCE FEATURES SUMMARY***

## ***ROUTE 0400 : TREATMENT PLANT HILL ROAD***

<b><i>FEATURE</i></b>	<b><i>ROUTE TOTAL</i></b>	<b><i>UNIT</i></b>
BRIDGE	0	EACH
CATTLE GUARD	0	EACH
CULVERT	0	EACH
CURB	0	LINEAR FEET
DROP INLET	0	EACH
GUARD WALL	0	LINEAR FEET
GUARDRAIL	0	LINEAR FEET
INTERSECTION	3	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	0	EACH
PAVED DITCH	0	LINEAR FEET
PULLOUT	0	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	0	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	0	EACH
TUNNEL	0	EACH
TURNOUT	0	LINEAR FEET

# ***NOCA: ROUTE MAINTENANCE FEATURES SUMMARY***

## ***ROUTE 0401 : NORTH CASCADES VISITOR CENTER SERVICE RD***

<b><i>FEATURE</i></b>	<b><i>ROUTE TOTAL</i></b>	<b><i>UNIT</i></b>
BRIDGE	0	EACH
CATTLE GUARD	0	EACH
CULVERT	0	EACH
CURB	0	LINEAR FEET
DROP INLET	0	EACH
GUARD WALL	0	LINEAR FEET
GUARDRAIL	0	LINEAR FEET
INTERSECTION	3	EACH
LOW WATER CROSSING	0	EACH
OVERHEAD SIGN	0	EACH
PARK BOUNDARY	0	EACH
PAVED DITCH	0	LINEAR FEET
PULLOUT	0	EACH
RAILROAD CROSSING	0	EACH
RETAINING WALL	0	EACH
STATE BOUNDARY	0	EACH
TRAFFIC LIGHT	0	EACH
TUNNEL	0	EACH
TURNOUT	0	LINEAR FEET

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

## ***ROUTE 0010 : STEHEKIN VALLEY ROAD***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.000	0.000			ROUTE BEGINS AT ROUTES 918A & B
0.029	0.029	INTERSECTION	RIGHT	RTE 918B
0.037	0.037	INTERSECTION	LEFT	RTE 918A
0.094	0.094	INTERSECTION	LEFT	
0.105	0.105	INTERSECTION	RIGHT	
0.120	0.120	INTERSECTION	LEFT	
0.129	0.129	CULVERT	N/A	
0.155	0.155	INTERSECTION	LEFT	
0.164	0.164	INTERSECTION	RIGHT	RTE 400
0.240	0.240	CULVERT	N/A	
0.449	0.449	CULVERT	N/A	
0.465	0.465	CULVERT	N/A	
0.667	0.667	CULVERT	N/A	
0.736	0.736	CULVERT	N/A	
0.818	0.818	CULVERT	N/A	
0.829	0.829	INTERSECTION	LEFT	
1.052	1.052	CULVERT	N/A	
1.088	1.088	CULVERT	N/A	
1.176	1.176	CULVERT	N/A	

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

## ***ROUTE 0010 : STEHEKIN VALLEY ROAD***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
1.204	1.204	CULVERT	N/A	
1.234	1.234	CULVERT	N/A	
1.404	1.404	CULVERT	N/A	
1.435	1.435	CULVERT	N/A	
1.485	1.485	INTERSECTION	LEFT	
1.491	1.491	CULVERT	N/A	
1.537	1.537	INTERSECTION	RIGHT	
1.540	1.540	INTERSECTION	LEFT	NON NPS ROAD
1.846	1.846	INTERSECTION	LEFT	NON NPS ROAD
1.857	1.857	INTERSECTION	LEFT	NON NPS ROAD
1.864	1.864	INTERSECTION	LEFT	
1.966	1.966	INTERSECTION	LEFT	NON NPS ROAD
2.085	2.085	INTERSECTION	RIGHT	
2.232	2.244	BRIDGE	N/A	
2.303	2.303	CULVERT	N/A	
2.388	2.388	INTERSECTION	RIGHT	
2.460	2.460	CULVERT	N/A	
2.728	2.728	CULVERT	N/A	
2.994	2.994	INTERSECTION	RIGHT	
2.998	2.998	INTERSECTION	LEFT	

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

## ***ROUTE 0010 : STEHEKIN VALLEY ROAD***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
3.267	3.267	INTERSECTION	LEFT	
3.327	3.338	BRIDGE	N/A	
3.402	3.402	INTERSECTION	RIGHT	RTE 104
3.438	3.438	CULVERT	N/A	
3.573	3.573	INTERSECTION	LEFT	RTE 103
3.753	3.753	INTERSECTION	LEFT	
4.318	4.318	CULVERT	N/A	
4.323	4.323	INTERSECTION	LEFT	RTE 100
4.350	4.350			ROUTE ENDS AT END OF PAVEMENT

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

## ***ROUTE 0100 : COMPANY CREEK ROAD***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.000	0.000			ROUTE BEGINS AT ROUTE 010
0.008	0.008	INTERSECTION	RIGHT	RTE 010
0.010	0.043	BRIDGE	N/A	
0.070	0.070			ROUTE ENDS AT END OF PAVEMENT

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

## ***ROUTE 0105 : ENVIRONMENTAL LEARNING CENTER ACCESS ROAD***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.000	0.000			ROUTE BEGINS AT DAM ROAD
0.009	0.009	INTERSECTION	RIGHT	BARDGE LANDING
0.056	0.083	PULLOUT	LEFT	
0.065	0.065	INTERSECTION	RIGHT	NON NPS ROAD
0.143	0.143	CULVERT	N/A	
0.186	0.186	CULVERT	N/A	
0.258	0.258	INTERSECTION	RIGHT	ROSS LAKE RESORT PARKING
0.284	0.284	INTERSECTION	RIGHT	
0.315	0.315	INTERSECTION	RIGHT	ROSS LAKE RESORT PARKING
0.380	0.380	INTERSECTION	RIGHT	NON NPS ROAD
0.424	0.430	GUARDRAIL	RIGHT	
0.445	0.445	INTERSECTION	RIGHT	NON NPS ROAD
0.471	0.471	CULVERT	N/A	
0.510	0.510	CULVERT	N/A	
0.547	0.547	CULVERT	N/A	
0.558	0.558	CULVERT	N/A	
0.573	0.573	INTERSECTION	RIGHT	
0.596	0.596	INTERSECTION	RIGHT	
0.610	0.610	CULVERT	N/A	
0.660	0.660			ROUTE ENDS AT END

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

## ***ROUTE 0200 : COLONIAL CREEK CAMPGROUND ACCESS SOUTH***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.000	0.000			ROUTE BEGINS AT STATE HIGHWAY 20
0.007	0.007	INTERSECTION	LEFT	STATE HWY 20
0.068	0.068	INTERSECTION	LEFT	RTE 914
0.110	0.110			ROUTE ENDS AT ROUTE 200A
0.114	0.114	INTERSECTION	RIGHT	RTE 915

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

## ***ROUTE 0200A : COLONIAL CREEK CAMPGROUND LOOP A***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.000	0.000			ROUTE BEGINS AT ROUTE 914
0.010	0.010	INTERSECTION	RIGHT	RTE 914
0.030	0.030	INTERSECTION	LEFT	
0.078	0.078	INTERSECTION	LEFT	
0.087	0.102	PULLOUT	RIGHT	
0.097	0.097	INTERSECTION	LEFT	
0.110	0.110	INTERSECTION	LEFT	
0.140	0.140	INTERSECTION	LEFT	
0.140	0.140	INTERSECTION	RIGHT	
0.151	0.151	INTERSECTION	LEFT	
0.178	0.178	INTERSECTION	LEFT	
0.179	0.179	INTERSECTION	RIGHT	
0.180	0.180	CULVERT	N/A	
0.193	0.193	INTERSECTION	LEFT	
0.200	0.200	INTERSECTION	RIGHT	
0.225	0.225	CULVERT	N/A	
0.227	0.227	INTERSECTION	LEFT	
0.238	0.238	INTERSECTION	LEFT	
0.250	0.250	INTERSECTION	LEFT	
0.274	0.274	INTERSECTION	RIGHT	

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

## ***ROUTE 0200A : COLONIAL CREEK CAMPGROUND LOOP A***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.280	0.280	INTERSECTION	LEFT	RTE 200B
0.314	0.314	CULVERT	N/A	
0.365	0.380	PULLOUT	LEFT	
0.415	0.415	CULVERT	N/A	
0.464	0.464	CULVERT	N/A	
0.471	0.471	INTERSECTION	LEFT	RTE 200B
0.473	0.473	INTERSECTION	RIGHT	
0.512	0.512	INTERSECTION	LEFT	RTE 200C
0.520	0.520	INTERSECTION	RIGHT	RTE 200A
0.527	0.527	INTERSECTION	LEFT	RTE 914
0.530	0.530			ROUTE ENDS AT ROUTE 200

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

## ***ROUTE 0200B : COLONIAL CREEK CAMPGROUND LOOP B***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.000	0.000			ROUTE BEGINS AT ROUTE 200A
0.005	0.005	INTERSECTION	RIGHT	RTE 200A
0.047	0.047	CULVERT	N/A	
0.085	0.085	CULVERT	N/A	
0.148	0.148	INTERSECTION	LEFT	
0.174	0.174	INTERSECTION	LEFT	
0.178	0.178	INTERSECTION	LEFT	
0.188	0.188	CULVERT	N/A	
0.248	0.248	INTERSECTION	RIGHT	RTE 200A
0.250	0.250			ROUTE ENDS AT ROUTE 200A

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

## ***ROUTE 0200C : DUMP STATION ACCESS ROAD***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.000	0.000			ROUTE BEGINS AT ROUTE 200
0.011	0.011	INTERSECTION	RIGHT	RTE 915
0.044	0.044	INTERSECTION	RIGHT	RTE 915
0.086	0.086	INTERSECTION	LEFT	RTE 200A
0.086	0.086	INTERSECTION	RIGHT	RTE 200A
0.090	0.090			ROUTE ENDS AT ROUTE 200A

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

## ***ROUTE 0201 : GODELL CREEK CAMPGROUND ACCESS ROAD***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.000	0.000			ROUTE BEGINS AT STATE HIGHWAY 20
0.005	0.005	INTERSECTION	RIGHT	STATE HWY 20
0.012	0.012	INTERSECTION	RIGHT	NON NPS ROAD
0.031	0.031	INTERSECTION	LEFT	RTE 902
0.037	0.037	INTERSECTION	RIGHT	RTE 205
0.061	0.061	INTERSECTION	RIGHT	RTE 201B
0.083	0.083	CULVERT	N/A	
0.200	0.200			ROUTE ENDS AT ROUTE 201A
0.200	0.200	INTERSECTION	RIGHT	RTE 201B

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

## ***ROUTE 0201A : GOODELL CREEK CAMPGROUND LOOP A***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.000	0.000			ROUTE BEGINS AT ROUTE 201
0.006	0.006	INTERSECTION	RIGHT	RTE 201B
0.015	0.015	INTERSECTION	RIGHT	RTE 201A
0.222	0.222	INTERSECTION	LEFT	
0.237	0.237	INTERSECTION	RIGHT	
0.252	0.252	INTERSECTION	RIGHT	RTE 201A
0.270	0.270			ROUTE ENDS AT END OF LOOP

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

## ***ROUTE 0201B : GOODELL CREEK CAMPGROUND LOOP B***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.000	0.000			ROUTE BEGINS AT ROUTE 201A
0.002	0.002	INTERSECTION	LEFT	RTE 201
0.008	0.008	INTERSECTION	RIGHT	
0.021	0.021	INTERSECTION	LEFT	RTE 201A
0.117	0.117	INTERSECTION	LEFT	
0.172	0.172	INTERSECTION	LEFT	RTE 205
0.180	0.180			ROUTE ENDS AT ROUTE 205

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

## ***ROUTE 0202 : NEWHALEM CREEK CAMPGROUND ACCESS ROAD***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.000	0.000			ROUTE BEGINS AT STATE HIGHWAY 20
0.007	0.007	INTERSECTION	RIGHT	STATE HIGHWAY 20
0.034	0.097	BRIDGE	N/A	
0.039	0.100	GUARDRAIL	LEFT	
0.039	0.101	GUARDRAIL	RIGHT	
0.099	0.103	CURB	LEFT	
0.100	0.112	CURB	RIGHT	
0.105	0.105	INTERSECTION	LEFT	RTE 208
0.106	0.113	CURB	LEFT	
0.110	0.110			ROUTE ENDS AT ROUTE 208

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

## ***ROUTE 0204 : NORTH CASCADES VISITOR CENTER ACCESS ROAD***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.000	0.000			ROUTE BEGINS AT ROUTE 208
0.007	0.007	INTERSECTION	RIGHT	RTE 208
0.209	0.281	CURB	RIGHT	
0.216	0.216	DROP INLET	RIGHT	
0.216	0.316	GUARDRAIL	RIGHT	
0.231	0.333	CURB	LEFT	
0.243	0.243	DROP INLET	LEFT	
0.243	0.243	DROP INLET	RIGHT	
0.285	0.285	DROP INLET	LEFT	
0.339	0.339	CULVERT	N/A	
0.404	0.404	INTERSECTION	LEFT	RTE 215
0.445	0.445	INTERSECTION	RIGHT	RTE 401
0.486	0.568	CURB	LEFT	
0.489	0.617	CURB	RIGHT	
0.493	0.518	PULLOUT	RIGHT	
0.541	0.541	INTERSECTION	RIGHT	RTE 903B
0.542	0.542	INTERSECTION	LEFT	RTE 903A
0.571	0.571	INTERSECTION	LEFT	RTE 204
0.575	0.585	CURB	LEFT	
0.595	0.595	INTERSECTION	LEFT	RTE 903D

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

## ***ROUTE 0204 : NORTH CASCADES VISITOR CENTER ACCESS ROAD***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.596	0.596	INTERSECTION	RIGHT	RTE 903C
0.609	0.618	CURB	LEFT	
0.659	0.659	INTERSECTION	LEFT	RTE 903D
0.668	0.696	CURB	LEFT	
0.698	0.698	INTERSECTION	LEFT	RTE 204
0.699	0.699	INTERSECTION	RIGHT	RTE 204
0.700	0.700			ROUTE ENDS AT ROUTE 903

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

## ***ROUTE 0205 : RAFT LAUNCH LOOP***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.000	0.000			ROUTE BEGINS AT ROUTE 201
0.001	0.001	INTERSECTION	LEFT	RTE 201
0.026	0.026	INTERSECTION	RIGHT	
0.041	0.041	INTERSECTION	RIGHT	RTE 201B
0.045	0.045	INTERSECTION	LEFT	RTE 201
0.050	0.050			ROUTE ENDS AT ROUTE 201

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

## ***ROUTE 0206 : NEWHALEM CREEK CAMPGROUND ACCESS TO LOOP***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.000	0.000			ROUTE BEGINS AT ROUTE 204
0.005	0.011	CURB	RIGHT	
0.006	0.006	INTERSECTION	RIGHT	RTE 204
0.065	0.065	INTERSECTION	LEFT	RTE 210A
0.066	0.066	INTERSECTION	RIGHT	RTE 210B
0.070	0.070			ROUTE ENDS AT END OF PAVEMENT

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

## ***ROUTE 0207 : NEWHALEM CREEK CAMPGROUND ACCESS TO LOOP***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.000	0.000			ROUTE BEGINS AT ROUTE 204
0.007	0.007	INTERSECTION	RIGHT	RTE 204
0.011	0.011	INTERSECTION	LEFT	RTE 208
0.011	0.016	CURB	LEFT	
0.047	0.047	INTERSECTION	LEFT	RTE 210D
0.048	0.048	INTERSECTION	RIGHT	RTE 210C
0.112	0.112	INTERSECTION	LEFT	RTE 210D
0.116	0.116	INTERSECTION	RIGHT	RTE 210C
0.130	0.130			ROUTE ENDS AT END

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

## ***ROUTE 0208 : NEWHALEM CREEK KIOSK/DUMP STATION LOOP***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.000	0.000			ROUTE BEGINS AT ROUTE 202
0.007	0.007	INTERSECTION	LEFT	RTE 208
0.008	0.087	CURB	RIGHT	
0.012	0.020	CURB	LEFT	
0.022	0.082	CURB	LEFT	
0.024	0.024	INTERSECTION	LEFT	RTE 202
0.036	0.036	INTERSECTION	LEFT	RTE 924
0.038	0.068	CURB	LEFT	
0.053	0.053	INTERSECTION	RIGHT	RTE 925
0.070	0.070	INTERSECTION	LEFT	RTE 924
0.077	0.077	INTERSECTION	RIGHT	RTE 912
0.088	0.088	INTERSECTION	LEFT	RTE 208
0.090	0.097	CURB	LEFT	
0.100	0.100			ROUTE ENDS AT END OF LOOP
0.102	0.102	INTERSECTION	RIGHT	RTE 206
0.103	0.103	INTERSECTION	LEFT	RTE 207

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

## ***ROUTE 0209A : COLONIAL CREEK CAMPGROUND NORTH LOOP A***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.000	0.000			ROUTE BEGINS AT STATE HIGHWAY 20
0.007	0.007	INTERSECTION	LEFT	STATE HIGHWAY 20
0.030	0.030	INTERSECTION	LEFT	RTE 209A
0.042	0.042	INTERSECTION	RIGHT	
0.049	0.049	INTERSECTION	LEFT	STATE HWY 20
0.052	0.052	INTERSECTION	RIGHT	
0.124	0.124	CULVERT	N/A	
0.381	0.381	INTERSECTION	RIGHT	
0.398	0.398	INTERSECTION	LEFT	RTE 209B
0.438	0.438	INTERSECTION	RIGHT	
0.456	0.456	INTERSECTION	RIGHT	
0.466	0.466	INTERSECTION	LEFT	RTE 209A
0.490	0.490			ROUTE ENDS AT END OF LOOP

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

## ***ROUTE 0209B : COLONIAL CREEK CAMPGROUND NORTH LOOP B***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.000	0.000			ROUTE BEGINS AT ROUTE 209A
0.009	0.009	INTERSECTION	RIGHT	RTE 209A
0.088	0.088	INTERSECTION	RIGHT	RTE 209A
0.100	0.100			ROUTE ENDS AT ROUTE 209A

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

## ***ROUTE 0210A : NEWHALEM CREEK CAMPGROUND LOOP A***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.000	0.000			ROUTE BEGINS AT ROUTE 206
0.006	0.006	INTERSECTION	RIGHT	RTE 206
0.010	0.010	INTERSECTION	LEFT	RTE 210A
0.049	0.049	INTERSECTION	RIGHT	
0.123	0.123	INTERSECTION	RIGHT	
0.134	0.134	INTERSECTION	RIGHT	
0.174	0.174	INTERSECTION	RIGHT	
0.310	0.310	INTERSECTION	LEFT	RTE 210A
0.320	0.320			ROUTE ENDS AT END OF LOOP
0.325	0.325	INTERSECTION	LEFT	RTE 206

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

## ***ROUTE 0210B : NEWHALEM CREEK CAMPGROUND LOOP B***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.000	0.000			ROUTE BEGINS AT ROUTE 206
0.007	0.007	INTERSECTION	RIGHT	RTE 206
0.012	0.012	INTERSECTION	LEFT	RTE 206
0.244	0.244	INTERSECTION	LEFT	RTE 206
0.250	0.250			ROUTE ENDS AT END OF LOOP

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

## ***ROUTE 0210C : NEWHALEM CREEK CAMPGROUND LOOP C***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.000	0.000			ROUTE BEGINS AT ROUTE 207
0.004	0.004	INTERSECTION	LEFT	RTE 207
0.008	0.008	INTERSECTION	LEFT	
0.416	0.416	INTERSECTION	LEFT	RTE 207
0.416	0.416	INTERSECTION	RIGHT	RTE 207
0.420	0.420			ROUTE ENDS AT ROUTE 207

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

## ***ROUTE 0210D : NEWHALEM CREEK GROUP CAMPGROUND LOOP D***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.000	0.000			ROUTE BEGINS AT ROUTE 207
0.006	0.006	INTERSECTION	LEFT	RTE 207
0.073	0.087	PULLOUT	LEFT	
0.123	0.123	INTERSECTION	RIGHT	
0.149	0.149	INTERSECTION	LEFT	
0.149	0.149	INTERSECTION	RIGHT	
0.166	0.166	INTERSECTION	RIGHT	RTE 207
0.169	0.169	INTERSECTION	LEFT	RTE 207
0.170	0.170			ROUTE ENDS AT ROUTE 207

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

## ***ROUTE 0400 : TREATMENT PLANT HILL ROAD***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.000	0.000			ROUTE BEGINS AT ROUTE 010
0.001	0.001	INTERSECTION	LEFT	RTE 010
0.065	0.065	INTERSECTION	RIGHT	
0.080	0.080			ROUTE ENDS AT END
0.081	0.081	INTERSECTION	LEFT	END

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

## ***ROUTE 0401 : NORTH CASCADES VISITOR CENTER SERVICE RD***

<b><i>FROM MILEPOST</i></b>	<b><i>TO MILEPOST</i></b>	<b><i>FEATURE</i></b>	<b><i>SIDE</i></b>	<b><i>COMMENT</i></b>
0.000	0.000			ROUTE BEGINS AT ROUTE 204
0.002	0.002	INTERSECTION	RIGHT	RTE 204
0.068	0.068	INTERSECTION	RIGHT	RTE 916
0.069	0.069	INTERSECTION	LEFT	RTE 916
0.070	0.070			ROUTE ENDS AT ROUTE 916

## APPENDIX A: GLOSSARY OF TERMS AND ABBREVIATIONS

<b>TERM OR ABBREVIATION</b>	<b>DESCRIPTION OR DEFINITION</b>
9470	Numeric Code for North Cascades National Park
AADT	Annually Adjusted Daily Traffic. Average daily traffic adjusted for the term period comprising 80% of annual visitation
CRS	Condition Rating Sheets. (Section 5)
Drainage Condition Rating	A visual rating (Good, Poor) of the drainage condition. (see Section 10)
Excellent	Excellent rating with an index value of 95 or greater
Fair	Fair rating with an index value between 61 and 84
Func. Class	Functional Classification (see Route ID, Section 4)
Good	Good rating with an index value between 85 and 94
IRI	International Roughness Index
Lane Width	Distance from road centerline to fogline, or from centerline to edge-of-pavement when no fogline exists
MRR	Manually Rated Route
NA	Not Applicable
NC	Not Collected
NOCA	Alpha Code for North Cascades National Park
Paved Width	Distance from edge-of-pavement to edge-of-pavement
PCR	Pavement Condition Rating (see Section 10)

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

## APPENDIX B: DESCRIPTION OF RATING SYSTEM

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

Data is collected on the following distresses and conditions:

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

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

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

### Rating Index Formulas

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

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

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

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

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

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

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

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

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

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

**Parking Lot and Manually Rated Road Condition Rating**

**Surface Condition Distresses- Chip Seal:**

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

**Ratings - Chip Seal:**

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

**Surface Condition - Asphalt:**

- Cracking of any type
- Rutting
- Potholes/Patching

**Ratings - Asphalt:**

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

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

Excellent	97
Good	90
Fair	73
Poor	45

### Drainage Condition Rating Definitions

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

### Drainage Condition Rating Criteria

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

#### **Good Drainage**

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

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

#### **Poor Drainage**

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

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

### Shoulder Condition Rating Definitions

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

### **Shoulder Rating Criteria**

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

#### **Good Shoulders**

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

#### **Poor Shoulder**

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

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

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

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

## APPENDIX D: METADATA

### ARAN ROUTE GPS DATA

Background information of route spatial data.

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

**Data Collection Device:**

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

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

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

**Geographic Datum:** WGS 1984

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

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

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

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

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

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

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

### Specific Caveats

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

space and to reduce data analysis efforts, the assumption was made that the paved surface condition of a route's primary lane adequately represents the surface condition of the full roadway. Therefore, in the database, opposite-direction records in the PMS\_Visidata table do not include assessed values for roadway surface distresses. Values such as 0, N/A, -1, or a repeat of the primary-direction assessed value indicate that no assessment was performed. The PMS\_20 and PMS\_Mile tables simply exclude all opposite routes.

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

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

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

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

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

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

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

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

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

## Access Database Metadata

### Master Table Metadata:

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

**PMS\_Feature Table Metadata:**

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

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

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

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

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

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

### **Cycle 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





# noca\_seg

Metadata also available as

## Metadata:

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

### *Identification\_Information:*

#### *Citation:*

##### *Citation\_Information:*

*Originator:* The TSR Group

*Publication\_Date:* 2005

*Title:* noca\_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:* -121.271095

*East\_Bounding\_Coordinate:* -120.655846

*North\_Bounding\_Coordinate:* 48.720356

*South\_Bounding\_Coordinate:* 48.308945

#### *Keywords:*

##### *Theme:*

*Theme\_Keyword\_Thesaurus:* NOCA

*Theme\_Keyword:* NOCA

*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

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*Data\_Quality\_Information:*

*Attribute\_Accuracy:*

*Attribute\_Accuracy\_Report:* Good

*Completeness\_Report:* Complete for routes

*Lineage:*

*Source\_Information:*

*Type\_of\_Source\_Media:* GPS

*Process\_Step:*

*Process\_Description:* Metadata imported.

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*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:* 74

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*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

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*Entity\_and\_Attribute\_Information:*

*Detailed\_Description:*

*Entity\_Type:*

*Entity\_Type\_Label:* noca\_seg

*Attribute:*

*Attribute\_Label:* FID

*Attribute\_Definition:* Internal feature number.

*Attribute\_Definition\_Source:* ESRI

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:*

Sequential unique whole numbers that are automatically generated.

*Attribute:*

*Attribute\_Label:* Shape

*Attribute\_Definition:* Feature geometry.

*Attribute\_Definition\_Source:* ESRI

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* Coordinates defining the features.

*Attribute:*

*Attribute\_Label:* LENGTH

*Attribute\_Definition:* Length of feature

*Attribute\_Definition\_Source:* ESRI

*Attribute:*

*Attribute\_Label:* ID

*Attribute:*

*Attribute\_Label:* RTE\_NO

*Attribute\_Definition:* Route number

*Attribute\_Definition\_Source:* Route ID Meeting

*Attribute:*

*Attribute\_Label:* RT\_LENGTH

*Attribute\_Definition:* Collected route length

*Attribute\_Definition\_Source:* ARAN Data Collection

*Attribute:*

*Attribute\_Label:* PCR\_RATEAV

*Attribute\_Definition:*

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

*Attribute\_Domain\_Values:*

*Range\_Domain:*

*Range\_Domain\_Minimum:* 0

*Range\_Domain\_Maximum:* 100

*Attribute:*

*Attribute\_Label:* PCRAV

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

*Attribute\_Domain\_Values:*

*Enumerated\_Domain:**Enumerated\_Domain\_Value:* POOR*Enumerated\_Domain\_Value\_Definition:* PCR value <= 60*Enumerated\_Domain:**Enumerated\_Domain\_Value:* FAIR*Enumerated\_Domain\_Value\_Definition:* PCR value 61-84*Enumerated\_Domain:**Enumerated\_Domain\_Value:* GOOD*Enumerated\_Domain\_Value\_Definition:* PCR value 85-94*Enumerated\_Domain:**Enumerated\_Domain\_Value:* EXCELLENT*Enumerated\_Domain\_Value\_Definition:* PCR value 95-100*Attribute:**Attribute\_Label:* TSR\_EDITS*Attribute\_Definition:* Indicates whether feature has been edited for graphic purposes.*Attribute\_Domain\_Values:**Enumerated\_Domain:**Enumerated\_Domain\_Value:* 1*Enumerated\_Domain\_Value\_Definition:* Edit has been made to feature for graphic purposes*Enumerated\_Domain:**Enumerated\_Domain\_Value:* 0*Enumerated\_Domain\_Value\_Definition:* No edit made to feature.*Distribution\_Information:**Resource\_Description:* Downloadable Data*Standard\_Order\_Process:**Digital\_Form:**Digital\_Transfer\_Information:**Transfer\_Size:* 0.016*Metadata\_Reference\_Information:**Metadata\_Date:* 20050425*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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# noca\_mi

Metadata also available as

## Metadata:

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

### *Identification\_Information:*

#### *Citation:*

##### *Citation\_Information:*

*Originator:* The TSR Group

*Publication\_Date:* 2005

*Title:* noca\_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:* -121.271095

*East\_Bounding\_Coordinate:* -120.655846

*North\_Bounding\_Coordinate:* 48.720356

*South\_Bounding\_Coordinate:* 48.308945

#### *Keywords:*

##### *Theme:*

*Theme\_Keyword\_Thesaurus:* NOCA

*Theme\_Keyword:* NOCA

*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

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*Data\_Quality\_Information:*

*Attribute\_Accuracy:*

*Attribute\_Accuracy\_Report:* Good

*Completeness\_Report:* Complete for routes

*Lineage:*

*Source\_Information:*

*Type\_of\_Source\_Media:* GPS

*Process\_Step:*

*Process\_Description:* Metadata imported.

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*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:* 28

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*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

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*Entity\_and\_Attribute\_Information:*

*Detailed\_Description:*

*Entity\_Type:*

*Entity\_Type\_Label:* noca\_mi

*Attribute:*

*Attribute\_Label:* FID

*Attribute\_Definition:* Internal feature number.

*Attribute\_Definition\_Source:* ESRI

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:*

Sequential unique whole numbers that are automatically generated.

*Attribute:*

*Attribute\_Label:* Shape

*Attribute\_Definition:* Feature geometry.

*Attribute\_Definition\_Source:* ESRI

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* Coordinates defining the features.

*Attribute:*

*Attribute\_Label:* LENGTH

*Attribute\_Definition:* Length of feature

*Attribute\_Definition\_Source:* ESRI

*Attribute:*

*Attribute\_Label:* ID

*Attribute:*

*Attribute\_Label:* RTE\_NO

*Attribute\_Definition:* Route number

*Attribute\_Definition\_Source:* Route ID Meeting

*Attribute:*

*Attribute\_Label:* RT\_LENGTH

*Attribute\_Definition:* Collected route length

*Attribute\_Definition\_Source:* ARAN Data Collection

*Attribute:*

*Attribute\_Label:* PCRMI

*Attribute\_Definition:* Numeric PCR definition

*Attribute\_Domain\_Values:*

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*Range\_Domain\_Minimum:* 0

*Range\_Domain\_Maximum:* 100

*Attribute:*

*Attribute\_Label:* PCR\_RATEMI

*Attribute\_Definition:* Verbal PCR definition

*Attribute\_Domain\_Values:*

*Enumerated\_Domain:*

*Enumerated\_Domain\_Value:* POOR

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

*Attribute:*

*Attribute\_Label:* TSR\_EDITS  
*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.

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*Distribution\_Information:*

*Resource\_Description:* Downloadable Data  
*Standard\_Order\_Process:*  
*Digital\_Form:*  
*Digital\_Transfer\_Information:*  
*Transfer\_Size:* 0.016

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*Metadata\_Reference\_Information:*

*Metadata\_Date:* 20050425  
*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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# noca\_mi\_pt

Metadata also available as

## Metadata:

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

### *Identification\_Information:*

#### *Citation:*

##### *Citation\_Information:*

*Originator:* The TSR Group

*Publication\_Date:* 2005

*Title:* noca\_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:* -121.271095

*East\_Bounding\_Coordinate:* -120.656990

*North\_Bounding\_Coordinate:* 48.716343

*South\_Bounding\_Coordinate:* 48.308945

#### *Keywords:*

##### *Theme:*

*Theme\_Keyword\_Thesaurus:* NOCA

*Theme\_Keyword:* NOCA

*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

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*Data\_Quality\_Information:*

*Attribute\_Accuracy:*

*Attribute\_Accuracy\_Report:* Good

*Completeness\_Report:* Complete for mile points

*Lineage:*

*Source\_Information:*

*Type\_of\_Source\_Media:* GPS

*Process\_Step:*

*Process\_Description:* Metadata imported.

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*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:* 28

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*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

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*Entity\_and\_Attribute\_Information:*

*Detailed\_Description:*

*Entity\_Type:*

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

*Attribute:*

*Attribute\_Label:* FID

*Attribute\_Definition:* Internal feature number.

*Attribute\_Definition\_Source:* ESRI

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:*

Sequential unique whole numbers that are automatically generated.

*Attribute:*

*Attribute\_Label:* Shape

*Attribute\_Definition:* Feature geometry.

*Attribute\_Definition\_Source:* ESRI

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* Coordinates defining the features.

*Attribute:*

*Attribute\_Label:* RIP\_CYCLE

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

*Attribute\_Definition\_Source:* Route ID Meeting

*Attribute:*

*Attribute\_Label:* STATE

*Attribute\_Definition:* State where route is located

*Attribute\_Definition\_Source:* Route ID Meeting

*Attribute:*

*Attribute\_Label:* PARK\_ALPHA

*Attribute\_Definition:* Park alpha code

*Attribute\_Definition\_Source:* Route ID Meeting

*Attribute:*

*Attribute\_Label:* PARK\_NO

*Attribute\_Definition:* Park numeric code

*Attribute\_Definition\_Source:* Route ID Meeting

*Attribute:*

*Attribute\_Label:* RTE\_NO

*Attribute\_Definition:* Route number

*Attribute\_Definition\_Source:* Route ID Meeting

*Attribute:*

*Attribute\_Label:* FUNCT\_CLAS

*Attribute\_Definition:* Route functional class

*Attribute\_Definition\_Source:* Route ID Meeting

*Attribute:*

*Attribute\_Label:* DIRECTION

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

*Attribute\_Definition\_Source:* Route ID Meeting

*Attribute:**Attribute\_Label:* BEG\_MP*Attribute\_Definition:* MP at end of road interval described by database record*Attribute\_Definition\_Source:* Contractor Post-processing*Attribute:**Attribute\_Label:* END\_MP*Attribute\_Definition:* MP at end of road interval described by database record*Attribute\_Definition\_Source:* Contractor Post-processing*Attribute:**Attribute\_Label:* INT\_LENGTH*Attribute\_Definition:* Length of road interval as aggregated from data table*Attribute\_Definition\_Source:* Contractor Post-processing*Attribute:**Attribute\_Label:* RTE\_LENGTH*Attribute\_Definition:* Collected route length*Attribute\_Definition\_Source:* ARAN Data Collection*Attribute:**Attribute\_Label:* NO\_LANES*Attribute\_Definition:* Number of lanes in route*Attribute\_Definition\_Source:* ARAN Data Collection*Attribute:**Attribute\_Label:* LANE\_NO*Attribute\_Definition:* Data collection lane*Attribute\_Definition\_Source:* Contractor Post-processing*Attribute:**Attribute\_Label:* WX\_LANE\_WI*Attribute\_Definition:* WiseCrax (crack detection software) analysis width*Attribute\_Definition\_Source:* Contractor Post-processing*Attribute:**Attribute\_Label:* LANE\_WIDTH*Attribute\_Definition:* Width of lane*Attribute\_Definition\_Source:* Contractor Post-processing*Attribute:**Attribute\_Label:* PAVE\_WIDTH*Attribute\_Definition:* Full pavement width*Attribute\_Definition\_Source:* Contractor Post-processing*Attribute:**Attribute\_Label:* SHLD\_WIDTH*Attribute\_Definition:* Left shoulder width*Attribute\_Definition\_Source:* Contractor Post-processing*Attribute:**Attribute\_Label:* SHLD\_WID\_1*Attribute\_Definition:* Right shoulder width*Attribute\_Definition\_Source:* Contractor Post-processing*Attribute:**Attribute\_Label:* SHLD\_COND\_*Attribute\_Definition:* Left shoulder condition*Attribute\_Definition\_Source:* ARAN Data Collection*Attribute:**Attribute\_Label:* SHLD\_COND1*Attribute\_Definition:* Right shoulder condition

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*Attribute:*  
*Attribute\_Label:* DRAIN\_COND  
*Attribute\_Definition:* Left drainage condition  
*Attribute\_Definition\_Source:* ARAN Data Collection  
*Attribute:*  
*Attribute\_Label:* DRAIN\_CO\_1  
*Attribute\_Definition:* Right drainage condition  
*Attribute\_Definition\_Source:* ARAN Data Collection  
*Attribute:*  
*Attribute\_Label:* SURF\_TYPE  
*Attribute\_Definition:* Surface type of route  
*Attribute\_Definition\_Source:* ARAN Data Collection  
*Attribute:*  
*Attribute\_Label:* PCR  
*Attribute\_Definition:* Pavement Condition Rating  
*Attribute\_Definition\_Source:* Contractor Post-processing  
*Attribute:*  
*Attribute\_Label:* RCI  
*Attribute\_Definition:* Roughness Condition Index; -1 if invalid IRI  
*Attribute\_Definition\_Source:* Contractor Post-processing  
*Attribute:*  
*Attribute\_Label:* SCR  
*Attribute\_Definition:* Surface Condition Rating  
*Attribute\_Definition\_Source:* Contractor Post-processing  
*Attribute:*  
*Attribute\_Label:* IRI\_AVG  
*Attribute\_Definition:* Average IRI  
*Attribute\_Definition\_Source:* Contractor Post-processing  
*Attribute:*  
*Attribute\_Label:* IRI\_SD  
*Attribute\_Definition:* IRI Standard Deviation  
*Attribute\_Definition\_Source:* Contractor Post-processing  
*Attribute:*  
*Attribute\_Label:* IRI\_L  
*Attribute\_Definition:* Left wheel path IRI  
*Attribute\_Definition\_Source:* ARAN Data Collection  
*Attribute:*  
*Attribute\_Label:* IRI\_R  
*Attribute\_Definition:* Right wheel path IRI  
*Attribute\_Definition\_Source:* ARAN Data Collection  
*Attribute:*  
*Attribute\_Label:* IRI\_FLAG  
*Attribute\_Definition:* -1 if invalid IRI data  
*Attribute\_Definition\_Source:* Contractor Post-processing  
*Attribute:*  
*Attribute\_Label:* RUT\_INDEX  
*Attribute\_Definition:* Rut index  
*Attribute\_Definition\_Source:* Contractor Post-processing  
*Attribute:*  
*Attribute\_Label:* RUT\_AVG

*Attribute\_Definition:* Average rut depth of both wheelpaths

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

*Attribute:*

*Attribute\_Label:* RUT\_MAX

*Attribute\_Definition:* Maximum rut depth of both wheelpaths

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

*Attribute:*

*Attribute\_Label:* RUT\_SD

*Attribute\_Definition:* Rut depth standard deviation

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

*Attribute:*

*Attribute\_Label:* RUT\_LOW

*Attribute\_Definition:*

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

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

*Attribute:*

*Attribute\_Label:* RUT\_MED

*Attribute\_Definition:*

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

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

*Attribute:*

*Attribute\_Label:* RUT\_HI

*Attribute\_Definition:*

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

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

*Attribute:*

*Attribute\_Label:* XFALL

*Attribute\_Definition:* Cross fall at start of road interval

*Attribute\_Definition\_Source:* ARAN Data Collection

*Attribute:*

*Attribute\_Label:* GRADE

*Attribute\_Definition:* Grade at start of road interval

*Attribute\_Definition\_Source:* ARAN Data Collection

*Attribute:*

*Attribute\_Label:* AC\_INDEX

*Attribute\_Definition:* Alligator cracking index

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

*Attribute:*

*Attribute\_Label:* AC\_LOW

*Attribute\_Definition:*

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

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

*Attribute:*

*Attribute\_Label:* AC\_MED

*Attribute\_Definition:*

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

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

*Attribute:*

*Attribute\_Label:* AC\_HI

*Attribute\_Definition:*

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

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

*Attribute:*

*Attribute\_Label:* LC\_INDEX

*Attribute\_Definition:* Longitudinal cracking index

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

*Attribute:*

*Attribute\_Label:* LC\_LOW

*Attribute\_Definition:*

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

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

*Attribute:*

*Attribute\_Label:* LC\_MED

*Attribute\_Definition:*

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

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

*Attribute:*

*Attribute\_Label:* LC\_HI

*Attribute\_Definition:*

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

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

*Attribute:*

*Attribute\_Label:* TC\_INDEX

*Attribute\_Definition:* Transverse cracking index

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

*Attribute:*

*Attribute\_Label:* TC\_LOW

*Attribute\_Definition:*

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

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

*Attribute:*

*Attribute\_Label:* TC\_MED

*Attribute\_Definition:*

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

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

*Attribute:*

*Attribute\_Label:* TC\_HI

*Attribute\_Definition:*

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

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

*Attribute:*

*Attribute\_Label:* PATCH\_INDE

*Attribute\_Definition:* Patching index

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

*Attribute:*

*Attribute\_Label:* PATCHING

*Attribute\_Definition:* Percent of WiseCrax measured lane area affected by patching

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

*Attribute:*

*Attribute\_Label:* GPS\_LAT

*Attribute\_Definition:* Latitude coordinate

*Attribute\_Definition\_Source:* ARAN Data Collection

*Attribute:*

*Attribute\_Label:* GPS\_LON

*Attribute\_Definition:* Longitude coordinate

*Attribute\_Definition\_Source:* ARAN Data Collection

*Attribute:*

*Attribute\_Label:* GPS\_ELEV

*Attribute\_Definition:* Elevation

*Attribute\_Definition\_Source:* ARAN Data Collection

*Attribute:*

*Attribute\_Label:* GPS\_MODE

*Attribute\_Definition:* GPS mode during collection

*Attribute\_Definition\_Source:* ARAN Data Collection

*Attribute:*

*Attribute\_Label:* VIDEO

*Attribute\_Definition:* Removable USB video hard drive number

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

*Attribute:*

*Attribute\_Label:* IMAGE

*Attribute\_Definition:* Filename of .jpg image showing road interval

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

*Attribute:*

*Attribute\_Label:* SPEED

*Attribute\_Definition:* Average ARAN speed during data collection

*Attribute\_Definition\_Source:* ARAN Data Collection

*Attribute:*

*Attribute\_Label:* BRIDGE\_FL A

*Attribute\_Definition:* Flag indicating presence of bridge in interval

*Attribute\_Definition\_Source:* ARAN Data Collection

*Attribute:*

*Attribute\_Label:* CONSTR\_FL A

*Attribute\_Definition:* Flag indicating construction in interval

*Attribute\_Definition\_Source:* ARAN Data Collection

*Attribute:*

*Attribute\_Label:* LANEDEV\_FL

*Attribute\_Definition:* Flag indicating lane deviation in interval

*Attribute\_Definition\_Source:* ARAN Data Collection

*Attribute:*

*Attribute\_Label:* DATE

*Attribute\_Definition:* Data collection date

*Attribute\_Definition\_Source:* ARAN Data Collection

*Attribute:*

*Attribute\_Label:* NODISTRESS

*Attribute\_Definition:* Flag indicating absence of pavement distress

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

*Attribute:**Attribute\_Label:* FILENAME*Attribute\_Definition:* Filename of raw data files*Attribute\_Definition\_Source:* ARAN Data Collection*Attribute:**Attribute\_Label:* SECTION*Attribute\_Definition:* route section ID*Attribute\_Definition\_Source:* Route ID Meeting / ARAN Data Collection*Attribute:**Attribute\_Label:* FKEY*Attribute\_Definition:* Unique record ID*Attribute\_Definition\_Source:* Contractor Post-processing*Attribute:**Attribute\_Label:* VISI\_FROM*Attribute\_Definition:* Raw MP of first video frame in section*Attribute\_Definition\_Source:* Contractor Post-processing*Attribute:**Attribute\_Label:* VISI\_TO*Attribute\_Definition:* Raw MP of last video frame in section*Attribute\_Definition\_Source:* Contractor Post-processing*Attribute:**Attribute\_Label:* IDKEY*Attribute\_Definition:* Unique record ID used by VisiData*Attribute\_Definition\_Source:* Contractor Post-processing*Attribute:**Attribute\_Label:* MP\_REF*Attribute\_Definition:* Range of mileage to play in VisiData*Attribute\_Definition\_Source:* Contractor Post-processing

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*Distribution\_Information:**Resource\_Description:* Downloadable Data*Standard\_Order\_Process:**Digital\_Form:**Digital\_Transfer\_Information:**Transfer\_Size:* 0.030

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*Metadata\_Reference\_Information:**Metadata\_Date:* 20050425*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

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Generated by [mp](#) version 2.7.33 on Mon Apr 25 16:30:08 2005

# noca\_mrl\_03\_map

## Metadata:

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

### *Identification\_Information:*

#### *Citation:*

##### *Citation\_Information:*

*Originator:* Eastern Federal Lands Highway Division

*Publication\_Date:* Published Materials

##### *Title:*

noca\_mrl\_03\_map

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

*Online\_Linkage:* [Not Available](#)

### *Description:*

#### *Abstract:*

Copy of Manually Rated Roads - Lines

#### *Purpose:*

Road Inventory Program

#### *Supplemental\_Information:*

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

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

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

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

*Calendar\_Date:* unknown

#### *Currentness\_Reference:*

ground condition

### *Status:*

*Progress:* Complete

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

### *Spatial\_Domain:*

#### *Bounding\_Coordinates:*

*West\_Bounding\_Coordinate:* -121.098941

*East\_Bounding\_Coordinate:* -121.076212

*North\_Bounding\_Coordinate:* 48.490944

*South\_Bounding\_Coordinate:* 48.474510

### *Keywords:*

#### *Theme:*

*Theme\_Keyword\_Thesaurus:* NOCA

*Theme\_Keyword:* NOCA

*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 5.0 (Build 2195) Service Pack 4; ESRI ArcCatalog 8.3.0.800

[Back to Top](#)

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*Data\_Quality\_Information:*

*Attribute\_Accuracy:*

*Attribute\_Accuracy\_Report:*

Good

*Completeness\_Report:*

Complete for parking areas

*Lineage:*

*Source\_Information:*

*Type\_of\_Source\_Media:* GPS

*Process\_Step:*

*Process\_Description:*

Metadata imported.

[Back to Top](#)

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*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:* 4

[Back to Top](#)

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*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[Back to Top](#)

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*Entity\_and\_Attribute\_Information:**Detailed\_Description:**Entity\_Type:**Entity\_Type\_Label:* noca\_mrl\_03\_map*Entity\_Type\_Definition\_Source:*

GPS

*Attribute:**Attribute\_Label:* FID*Attribute\_Definition:*

Internal feature number.

*Attribute\_Definition\_Source:*

ESRI

*Attribute\_Domain\_Values:**Enumerated\_Domain:**Unrepresentable\_Domain:*

Sequential unique whole numbers that are automatically generated.

*Attribute:**Attribute\_Label:* Shape*Attribute\_Definition:*

Feature geometry.

*Attribute\_Definition\_Source:*

ESRI

*Attribute\_Domain\_Values:**Unrepresentable\_Domain:*

Coordinates defining the features.

*Attribute:**Attribute\_Label:* PARK\_ALPHA*Attribute\_Definition:*

Park alpha code

*Attribute\_Definition\_Source:*

Route ID Meeting

*Attribute:**Attribute\_Label:* RTE\_NO*Attribute\_Definition:*

Route Number  
*Attribute\_Definition\_Source:*  
Route ID Meeting

*Attribute:*  
*Attribute\_Label:* RTE\_NAME  
*Attribute\_Definition:*  
Route Name  
*Attribute\_Definition\_Source:*  
Route ID Meeting

*Attribute:*  
*Attribute\_Label:* SECTION\_  
*Attribute\_Definition:*  
Route Section ID  
*Attribute\_Definition\_Source:*  
Route ID Meeting / ARAN Data Collection

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

*Attribute:*  
*Attribute\_Label:* CONDITION  
*Attribute\_Definition:*  
Condition rating  
*Attribute\_Domain\_Values:*

*Attribute:*  
*Attribute\_Label:* COMMENT  
*Attribute\_Definition:*  
Field comment

*Attribute:*  
*Attribute\_Label:* GPS\_DATE  
*Attribute\_Definition:*  
Date of GPS Collection

*Attribute:*  
*Attribute\_Label:* DATAFILE

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

*Attribute:*  
*Attribute\_Label:* PAVED\_MI  
*Attribute\_Definition:*  
Calculated paved miles

[Back to Top](#)

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*Distribution\_Information:*  
*Resource\_Description:* Downloadable Data  
*Standard\_Order\_Process:*

*Digital\_Form:*  
*Digital\_Transfer\_Information:*  
*Transfer\_Size:* 0.037

[Back to Top](#)

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*Metadata\_Reference\_Information:*  
*Metadata\_Date:* 20050420  
*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

[Back to Top](#)

# noca\_mrl\_03

## Metadata:

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

### *Identification\_Information:*

#### *Citation:*

##### *Citation\_Information:*

*Originator:* Eastern Federal Lands Highway Division

*Publication\_Date:* Published Materials

##### *Title:*

noca\_mrl\_03

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

*Online\_Linkage:* [Not Available](#)

### *Description:*

#### *Abstract:*

Manually Rated Roads - Lines

#### *Purpose:*

Road Inventory Program

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

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

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

*Calendar\_Date:* unknown

#### *Currentness\_Reference:*

ground condition

### *Status:*

*Progress:* Complete

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

### *Spatial\_Domain:*

#### *Bounding\_Coordinates:*

*West\_Bounding\_Coordinate:* -121.098941

*East\_Bounding\_Coordinate:* -121.076212

*North\_Bounding\_Coordinate:* 48.490944

*South\_Bounding\_Coordinate:* 48.474510

### *Keywords:*

#### *Theme:*

*Theme\_Keyword\_Thesaurus:* NOCA

*Theme\_Keyword:* NOCA

*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 5.0 (Build 2195) Service Pack 4; ESRI ArcCatalog 8.3.0.800

[Back to Top](#)

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*Data\_Quality\_Information:*

*Attribute\_Accuracy:*

*Attribute\_Accuracy\_Report:*

Good

*Completeness\_Report:*

Complete for parking areas

*Lineage:*

*Source\_Information:*

*Type\_of\_Source\_Media:* GPS

*Process\_Step:*

*Process\_Description:*

Metadata imported.

[Back to Top](#)

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*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:* 4

[Back to Top](#)

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*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[Back to Top](#)

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*Entity\_and\_Attribute\_Information:**Detailed\_Description:**Entity\_Type:**Entity\_Type\_Label:* noca\_mrl\_03*Entity\_Type\_Definition\_Source:*

GPS

*Attribute:**Attribute\_Label:* FID*Attribute\_Definition:*

Internal feature number.

*Attribute\_Definition\_Source:*

ESRI

*Attribute\_Domain\_Values:**Enumerated\_Domain:**Unrepresentable\_Domain:*

Sequential unique whole numbers that are automatically generated.

*Attribute:**Attribute\_Label:* Shape*Attribute\_Definition:*

Feature geometry.

*Attribute\_Definition\_Source:*

ESRI

*Attribute\_Domain\_Values:**Unrepresentable\_Domain:*

Coordinates defining the features.

*Attribute:**Attribute\_Label:* PARK\_ALPHA*Attribute\_Definition:*

Park alpha code

*Attribute\_Definition\_Source:*

Route ID Meeting

*Attribute:**Attribute\_Label:* RTE\_NO*Attribute\_Definition:*

Route Number

*Attribute\_Definition\_Source:*

Route ID Meeting

*Attribute:**Attribute\_Label:* RTE\_NAME*Attribute\_Definition:*

Route Name

*Attribute\_Definition\_Source:*

Route ID Meeting

*Attribute:**Attribute\_Label:* SECTION\_*Attribute\_Definition:*

Route Section ID

*Attribute\_Definition\_Source:*

Route ID Meeting / ARAN Data Collection

*Attribute:**Attribute\_Label:* SURF\_TYPE*Attribute\_Definition:*

Surface type of route

*Attribute\_Definition\_Source:*

ARAN Data Collection

*Attribute:**Attribute\_Label:* CONDITION*Attribute\_Definition:*

Condition rating

*Attribute\_Domain\_Values:**Attribute:**Attribute\_Label:* COMMENT*Attribute\_Definition:*

Field comment

*Attribute:**Attribute\_Label:* GPS\_DATE*Attribute\_Definition:*

Date of GPS Collection

*Attribute:**Attribute\_Label:* DATAFILE*Attribute:**Attribute\_Label:* PAVED\_MI*Attribute\_Definition:*

Width of the paved area

*Attribute:**Attribute\_Label:* PAVED\_MI*Attribute\_Definition:*

Calculated paved miles

[Back to Top](#)

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

[Back to Top](#)

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*Metadata\_Reference\_Information:*

*Metadata\_Date:* 20050420

*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

[Back to Top](#)

# noca\_nonnps

Metadata also available as

## Metadata:

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

### *Identification\_Information:*

#### *Citation:*

##### *Citation\_Information:*

*Originator:* The TSR Group

*Publication\_Date:* 2005

*Title:* noca\_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:*

REQUIRED: The basis on which the time period of content information is determined.

#### *Status:*

*Progress:* Complete

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

#### *Spatial\_Domain:*

##### *Bounding\_Coordinates:*

*West\_Bounding\_Coordinate:* -121.449248

*East\_Bounding\_Coordinate:* -121.024870

*North\_Bounding\_Coordinate:* 48.729200

*South\_Bounding\_Coordinate:* 48.476241

#### *Keywords:*

##### *Theme:*

*Theme\_Keyword\_Thesaurus:* NOCA

*Theme\_Keyword:* NOCA

*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

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*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

*Process\_Step:*

*Process\_Description:* Metadata imported.

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*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:* 11

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*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

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*Entity\_and\_Attribute\_Information:**Detailed\_Description:**Entity\_Type:**Entity\_Type\_Label:* noca\_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

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*Distribution\_Information:**Resource\_Description:* Downloadable Data*Standard\_Order\_Process:**Digital\_Form:**Digital\_Transfer\_Information:**Transfer\_Size:* 0.008

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*Metadata\_Reference\_Information:**Metadata\_Date:* 20050425*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

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Generated by [mp](#) version 2.7.33 on Mon Apr 25 16:27:00 2005

# noca\_pkg\_03\_map

## Metadata:

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

### *Identification\_Information:*

#### *Citation:*

##### *Citation\_Information:*

*Originator:* Eastern Federal Lands Highway Division

*Publication\_Date:* Unknown

##### *Title:*

noca\_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:* 9/25/2002

#### *Currentness\_Reference:*

ground condition

### *Status:*

*Progress:* Complete

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

### *Spatial\_Domain:*

#### *Bounding\_Coordinates:*

*West\_Bounding\_Coordinate:* -121.450260

*East\_Bounding\_Coordinate:* -120.657326

*North\_Bounding\_Coordinate:* 48.728804

*South\_Bounding\_Coordinate:* 48.308785

### *Keywords:*

#### *Theme:*

*Theme\_Keyword\_Thesaurus:* NOCA

*Theme\_Keyword:* NOCA

*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 5.0 (Build 2195) Service Pack 4; ESRI ArcCatalog  
8.3.0.800

[Back to Top](#)

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*Data\_Quality\_Information:*

*Attribute\_Accuracy:*

*Attribute\_Accuracy\_Report:*

Good

*Completeness\_Report:*

Complete for parking areas

*Lineage:*

*Source\_Information:*

*Type\_of\_Source\_Media:* GPS

*Process\_Step:*

*Process\_Description:*

Metadata imported.

[Back to Top](#)

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*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:* 27

[Back to Top](#)

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*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[Back to Top](#)

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*Entity\_and\_Attribute\_Information:**Detailed\_Description:**Entity\_Type:**Entity\_Type\_Label:* noca\_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

[Back to Top](#)

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*Distribution\_Information:**Resource\_Description:* Downloadable Data*Standard\_Order\_Process:**Digital\_Form:**Digital\_Transfer\_Information:**Transfer\_Size:* 0.018[Back to Top](#)

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*Metadata\_Reference\_Information:**Metadata\_Date:* 20050420

*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[Back to Top](#)

# noca\_pkg\_03

## Metadata:

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

### *Identification\_Information:*

#### *Citation:*

##### *Citation\_Information:*

*Originator:* Eastern Federal Lands Highway Division

*Publication\_Date:* Unknown

##### *Title:*

noca\_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:* 9/25/2002

#### *Currentness\_Reference:*

ground condition

### *Status:*

*Progress:* Complete

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

### *Spatial\_Domain:*

#### *Bounding\_Coordinates:*

*West\_Bounding\_Coordinate:* -121.450260

*East\_Bounding\_Coordinate:* -120.657326

*North\_Bounding\_Coordinate:* 48.728804

*South\_Bounding\_Coordinate:* 48.308785

### *Keywords:*

#### *Theme:*

*Theme\_Keyword\_Thesaurus:* NOCA

*Theme\_Keyword:* NOCA

*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 5.0 (Build 2195) Service Pack 4; ESRI ArcCatalog 8.3.0.800

[Back to Top](#)

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*Data\_Quality\_Information:*

*Attribute\_Accuracy:*

*Attribute\_Accuracy\_Report:*

Good

*Completeness\_Report:*

Complete for parking areas

*Lineage:*

*Source\_Information:*

*Type\_of\_Source\_Media:* GPS

*Process\_Step:*

*Process\_Description:*

Metadata imported.

[Back to Top](#)

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*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:* 27

[Back to Top](#)

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*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[Back to Top](#)

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*Entity\_and\_Attribute\_Information:**Detailed\_Description:**Entity\_Type:**Entity\_Type\_Label:* noca\_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

[Back to Top](#)

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

[Back to Top](#)

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*Metadata\_Reference\_Information:*  
*Metadata\_Date:* 20050420  
*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

[Back to Top](#)