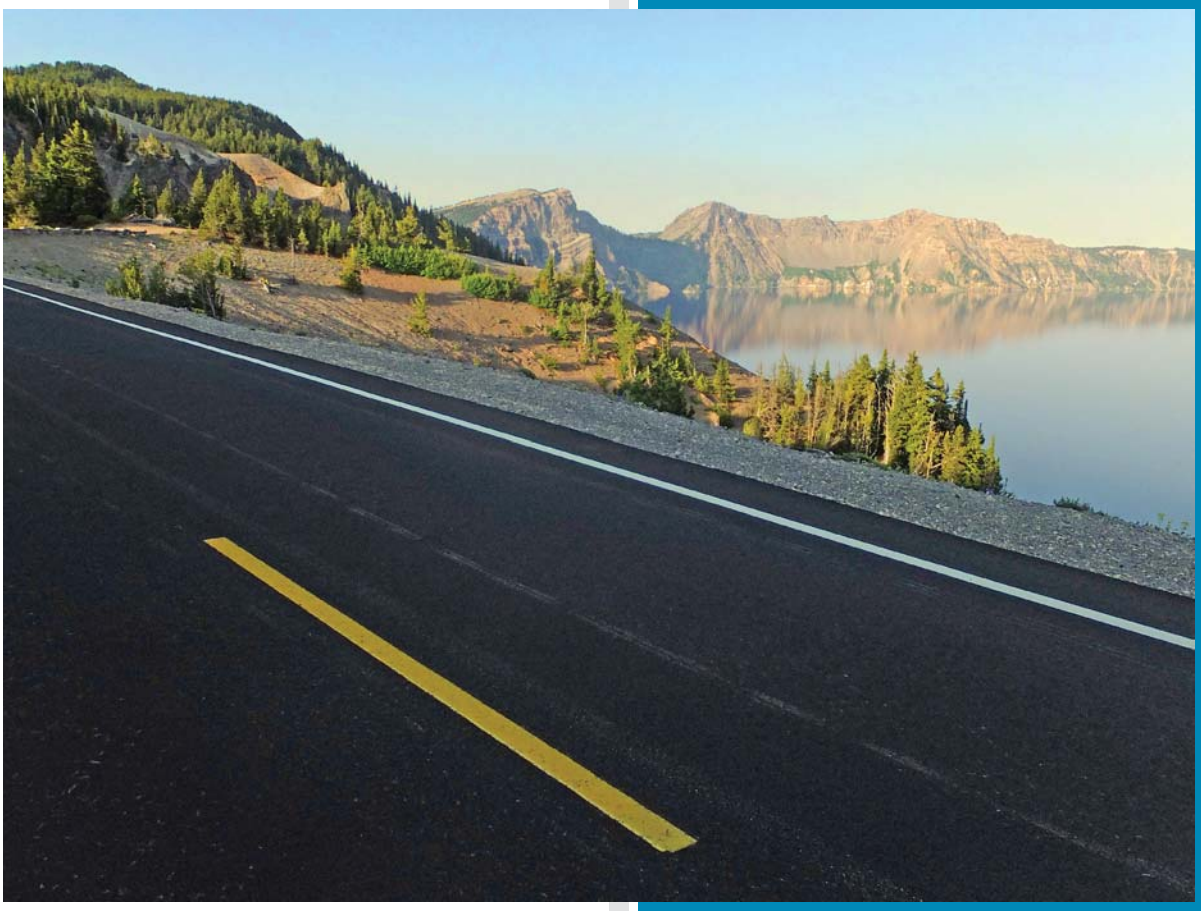
CRLA
Cycle 6

Final Report

Road Inventory and Condition Assessment of Paved Routes
Crater Lake National Park



Federal Lands Highway
Road Inventory Program

Prepared By:
Federal Highway Administration
Eastern Federal Lands Highway Division
Road Inventory Program (RIP)

Report Date: February 2016

Crater Lake National Park
in
Oregon

Sources: Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

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Introduction

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Federal Lands Highway
Road Inventory Program

Introduction

The Federal Highway Administration's (FHWA), Road Inventory Program (RIP) inventories all roads and parking areas in the National Park System, and performs condition inspections on all paved roads and parking areas for the National Park Service (NPS). This report contains the results of the Cycle 6 condition assessment of paved roads and parking lots for this park unit. This assessment was done using an automated, state-of-the-art pavement inspection vehicle as well as manual ratings. This information represents the condition of the paved assets at the time of the inspection. The pavement management system utilized by FHWA and the NPS uses these assessments to estimate future conditions and help prioritize pavement maintenance and rehabilitation projects. Further information about RIP data and its role in managing paved roads and bridges can be obtained by contacting the NPS Regional Transportation Program Manager.

A History of the Road Inventory Program:

The FHWA, in the mid-1970s, was charged with the task of identifying surface condition deficiencies and corrective priorities on NPS roads and parkways. Additionally, FHWA was tasked with establishing an integrated maintenance features inventory, locating features such as culverts, guardrails, and signs, among others, along NPS roads and parkways. As a result, in 1976 the NPS and FHWA entered into a Memorandum of Agreement (MOA) which established the RIP. This MOA was revised in 1980 to update RIP data collection standards and develop a long-range program to improve and maintain NPS roads to designated condition standards and establish a pavement management program.

The FHWA completed the initial phase of inventory in the early 1980s. As a result of this effort, each NPS unit included in the collection received a RIP Report known as the "Brown Book" which contained information that was inventoried during this first RIP phase. In the 1990s, a cyclical program was developed, and since then five cycles of collection have been completed. Cycle 6 is currently in progress. A summary of the RIP collection cycles is shown in the table below.

Cycle	Years	Parks Collected
Cycle 1	1994 - 1997	° 44 Large Parks
Cycle 2	1997 - 2001	° 79 Large Parks ° 5 Small Parks
Cycle 3	2001 - 2004	° All Large Parks ° All Small Parks
Cycle 4	2006 - 2010	° 86 Large Parks ° Several Small Parks
Cycle 5	2010 - 2014	° All Large Parks (Only functional class 1, 2, 7, and new/modified routes collected) ° All Small Parks (all roads and parking areas collected)
Cycle 6	2014 – 2020 (±)	° All roads and parking areas collected at all Parks ° Additional partial collections of functional class 1, 2, and 7 roads at Large Parks ° Cycle 6 is expected to last 6 years

Note: Large Parks have ≥ 10 Paved Miles; Small Parks have < 10 Paved Miles

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

In 1998, the Transportation Equity Act for the 21st Century (TEA-21) amended Title 23 U.S.C., and inserted Section 204(a)(6) requiring the FHWA and NPS, to develop by rule, a Pavement Management System (PMS) applied to park roads and parkways serving the National Park System.

In 2012, the Moving Ahead for Progress in the 21st Century Act (MAP-21) amended Title 23 U.S.C., and under Section 203(c)(1-2) stated that the National Park Service in cooperation with the DOT/FHWA, shall maintain a comprehensive national inventory of their transportation facilities, with the goal of quantifying transportation infrastructure needs within the National Park System.

A History of the Pavement Management System:

In 2005, the FHWA began implementing the use of a pavement management system to assist the NPS in prioritizing Pavement Maintenance and Rehabilitation activities. The system used by FHWA is the Highway Pavement Management Application (HPMA), which has the ability to store inventory and condition data from RIP and forecast future performance using prediction models. Outputs include performance and condition reports at the National, Regional, Park, or Route level. Regional prioritized lists and optimizations have been produced for most regions, and the Service's overall roadway Deferred Maintenance is calculated via the HPMA.

Overview of Cycle 6:

Cycle 6 launched in the spring of 2014 and will again comprise all NPS park units that are served by paved roads and/or parking areas. For Cycle 6, all paved roads (approximately 5,700 miles) and parking areas will be collected in all parks at least once, while the primary routes (functional class 1, 2, and 7 roads) at Large Parks will have additional collections. These multiple collections will provide updated condition data on a majority of the NPS's primary road network and help build a better pavement management system, allowing for more accurate pavement performance prediction models.

FLH is responsible for the accuracy of all data presented in this report. Any questions or comments concerning the contents of this report should be directed to the national RIP Coordinator located in Sterling, Virginia.

Respectfully,

FHWA RIP Team

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Section 2
Park Route Inventory

Crater Lake National Park

Federal Lands Highway
Road Inventory Program

Cycle 6 NPS / RIP Route ID Report

Report Date: 02/25/2016

(Numerical By Summary Route and Subcomponent #)

Federal Lands Highway
Road Inventory Program

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ROAD INVENTORY (1100 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description From	Route Description To	Maintenance District	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)	Surf. Type	Area Map
0010	6	1	74784		NORTH ENTRANCE ROAD	FROM INTERSECTION OF ROUTE 0013 (EAST RIM DRIVE) ON RIGHT AND ROUTE 0014 (WEST RIM DRIVE)	TO NORTH PARK BOUNDARY AT PAVEMENT CHANGE		9.15	0.00	9.15	1		AS	1,2
0011	6	1	74786		CRATER LAKE HIGHWAY	FROM WEST PARK BOUNDARY	TO SOUTH PARK BOUNDARY		17.43	0.00	17.43	1		AS	2,2B,4
0012	6	1	74787		MUNSON VALLEY ROAD	FROM ROUTE 0011 (CRATER LAKE HIGHWAY) AT MP 7.75 ON LEFT	TO ROUTE 0924 (CRATER LAKE LODGE PARKING)		7.21	0.00	7.21	1		AS	2,2A,2B
0013	6	1	74788		EAST RIM DRIVE	FROM INTERSECTION OF ROUTE 0010 (NORTH ENTRANCE ROAD) ON LEFT AND ROUTE 0014 (WEST RIM DRIVE) ON RIGHT	TO ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 3.90 ON RIGHT		23.19	0.00	23.19	1		AS	2,2A,3
0014	6	1	74789		WEST RIM DRIVE	FROM ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 6.72 ON LEFT	TO INTERSECTION OF ROUTE 0010 (NORTH ENTRANCE ROAD) AND ROUTE 0013 (EAST RIM DRIVE) ON RIGHT		5.92	0.00	5.92	1		AS	2,2A
0100	6	1	74790		PINNACLES ROAD	FROM ROUTE 0013 (EAST RIM DRIVE) AT MP 14.92 ON LEFT	TO ROUTE 0940 (THE PINNACLES OVERLOOK)		5.92	0.00	5.92	2		AS	3
0200	6	1	75124		MAZAMA VILLAGE ENTRANCE ROAD	FROM ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 0.30 ON RIGHT	TO END OF LOOP		0.46	0.00	0.46	3		AS	2B
0201ZZ	6	1	75125		CLOUDCAP VIEWPOINT ROADS	FROM ROUTE 0013 (EAST RIM DRIVE) AT MP 11.10 ON RIGHT	TO END OF LOOP		1.33	0.00	1.33	2		AS	3
0202ZZ	6	1	75126		MAZAMA MOTOR LODGE ROADS	FROM ROUTE 0200 (MAZAMA VILLAGE ENTRANCE ROAD) AT MP 0.28 ON RIGHT	TO END OF LOOPS		0.50	0.00	0.50	3		AS	2B
0203A	6	1	75127	■	MAZAMA CAMPGROUND LOOP A	FROM ROUTE 0200 (MAZAMA VILLAGE ENTRANCE)	TO END OF LOOP		0.16	0.00	0.16	3		AS	2B

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0203B	6	1	102869		MAZAMA CAMPGROUND LOOP B	FROM ROUTE 0200 (MAZAMA VILLAGE ENTRANCE ROAD) AT MP 0.34 ON RIGHT	TO ROUTE 0203G (MAZAMA CAMPGROUND LOOP G) AT MP 0.01 ON LEFT		0.18	0.00	0.18	3		AS	2B
0203C	6	1	102871		MAZAMA CAMPGROUND LOOP C	FROM ROUTE 0203G (MAZAMA CAMPGROUND LOOP G) AT MP 0.04 ON LEFT AND ROUTE 0947EZ (MAZAMA DUMP STATION)	TO ROUTE 0203G (MAZAMA CAMPGROUND LOOP G) AT MP 0.07 ON LEFT AND ROUTE 0947EZ (MAZAMA DUMP STATION)		0.26	0.00	0.26	3		AS	2B
0203D	6	1	102872		MAZAMA CAMPGROUND LOOP D	FROM ROUTE 0203G (MAZAMA CAMPGROUND LOOP G) AT MP 0.11 ON LEFT	TO ROUTE 0203G (MAZAMA CAMPGROUND LOOP G) AT MP 0.14 ON LEFT		0.36	0.00	0.36	3		AS	2B
0203E	6	1	102874		MAZAMA CAMPGROUND LOOP E	FROM ROUTE 0203G (MAZAMA CAMPGROUND LOOP G) AT MP 0.17 ON LEFT	TO ROUTE 0203G (MAZAMA CAMPGROUND LOOP G) AT MP 0.19 ON LEFT		0.41	0.00	0.41	3		AS	2B
0203F	6	1	102875		MAZAMA CAMPGROUND LOOP F	FROM ROUTE 0203G (MAZAMA CAMPGROUND LOOP G) AT MP 0.25 ON LEFT	TO ROUTE 0203G (MAZAMA CAMPGROUND LOOP G) AT MP 0.30 ON LEFT		0.34	0.00	0.34	3		AS	2B
0203G	6	1	102876		MAZAMA CAMPGROUND LOOP G	FROM ROUTE 0200 (MAZAMA VILLAGE ENTRANCE ROAD) AT MP 0.33 ON RIGHT	TO ROUTE 0203F (MAZAMA CAMPGROUND LOOP F) AT MP 0.04 ON RIGHT		0.67	0.00	0.67	3		AS	2B
0204	6	1	75128		VIDAE FALLS PICNIC AREA LOOP	FROM ROUTE 0013 (EAST RIM DRIVE) AT MP 20.16 ON LEFT	TO ROUTE 0943 (CRATER PEAK TRAIL PARKING)		0.23	0.00	0.23	3		AS	3
0205	NC		75130		LOST CREEK CAMPGROUND ACCESS	FROM ROUTE 0206 (GREYBACK DRIVE)	TO CAMPGROUND		0.00	0.02	0.02	3		GR	
0206	NC		75132		GREYBACK DRIVE	FROM ROUTE 0205 (LOST CREEK CAMPGROUND ACCESS) AT MP 3.1 ON RIGHT	TO ROUTE 0204 (VIDAE FALLS PICNIC AREA LOOP)		0.00	4.77	4.77	6		GR	

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0207ZZ	6	1	75134		PICNIC HILL LOOPS	FROM ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 7.16 ON RIGHT	THROUGH PICNIC AREA		0.89	0.00	0.89	3		AS	2A
0208	6	1	99599		NORTH ENTRANCE TURNAROUND	FROM ROUTE 0010 (NORTH ENTRANCE ROAD) AT MP 8.29 ON RIGHT	TO ROUTE 0010 (NORTH ENTRANCE ROAD) AT MP 8.31 ON RIGHT		0.03	0.00	0.03	3		AS	1
0400	6	1	75137		MAZAMA DORMITORIES ACCESS	FROM ROUTE 0011 (CRATER LAKE HIGHWAY) AT MP 8.35 ON RIGHT	TO END OF LOOP		0.43	0.00	0.43	6		AS	2B
0401ZZ	6	1	75139		HEADQUARTERS RESIDENCE AREA ROADS	FROM ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 3.74 ON RIGHT	THROUGH HEADQUARTERS RESIDENCE AREA		0.66	0.00	0.66	6		AS	2A
0402ZZ	6	1	75141		HEADQUARTERS MAINTENANCE AND PARKING AREAS	FROM ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 3.73 ON LEFT	THROUGH HEADQUARTERS AND MAINTENANCE AREA TO ROUTE 0921 (HEADQUARTERS VISITOR CENTER PARKING)		0.33	0.00	0.33	6		AS	2A
0403	6	1	75143		CRATER LAKE LODGE RESIDENCE ROAD	FROM ROUTE 0924 (CRATER LAKE LODGE PARKING)	TO ROUTE 0925 (CRATER LAKE LODGE RESIDENCE PARKING)		0.12	0.00	0.12	6		AS	2A
0404ZZ	6	1	75144		HEADQUARTERS RESIDENCE ROADS	FROM ROUTE 0921 (HEADQUARTERS VISITOR CENTER PARKING)	THROUGH RESIDENCE AREA		0.48	0.00	0.48	6		AS	2A
0405	NC		76824		SOUTH YARD EQUIPMENT PARKING AREA	FROM ROUTE 0011 (CRATER LAKE HIGHWAY) AT MP 17.34 ON RIGHT	TO ROUTE 0952 (SOUTH MAINTENANCE YARD)		0.00	0.15	0.15	6		GR	
0406	NC		76823		POLE CREEK ACCESS ROAD	FROM ROUTE 0011 (CRATER LAKE HIGHWAY) AT MP 9.84 ON RIGHT	TO END		0.00	0.40	0.40	6		GR	
0407	NC		76822		LOST CREEK WATER TREATMENT ACCESS ROAD	FROM ROUTE 0100 (PINNACLES ROAD)	TO WATER TREATMENT BUILDING		0.00	0.40	0.40	6		GR	

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0408	NC		76828		ANDERSON PIT ACCESS ROAD	FROM ROUTE 0100 (PINNACLES ROAD)	TO PIT		0.00	0.50	0.50	6		GR	
0409	NC		76830		MAZAMA LAGOON ACCESS	FROM ROUTE 0400 (MAZAMA DORMITORIES ACCESS)	TO LAGOONS		0.00	0.20	0.20	6		GR	
0410	NC		76831		MUNSON LAGOON ACCESS	FROM ROUTE 0404ZZ (HEADQUARTERS RESIDENCE ROADS)	TO LAGOONS		0.00	0.60	0.60	6		GR	

PARKING AREA INVENTORY (1300 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description From	Route Description To	Maintenance District	Access Level	Area (SQ FT)	Surf. Type	Area Map
0900	6	1	75343		DISCOVERY POINT	ADJACENT TO ROUTE 0014 (WEST RIM DRIVE) AT MP 1.10 ON RIGHT			PUBLIC	32,497	AS	2
0901	NC		75351		LIGHTNING SPRINGS TRAILHEAD PARKING	ADJACENT TO ROUTE 0014 (WEST RIM DRIVE) AT MP 2.20 ON LEFT			PUBLIC		GR	
0902	6	1	75353		DISCOVERY POINT PICNIC AREA	FROM ROUTE 0014 (WEST RIM DRIVE) AT MP 2.39 ON RIGHT	TO PARKING		PUBLIC	5,285	AS	2
0903	6	1	75354		UNION PEAK OVERLOOK	ADJACENT TO ROUTE 0014 (WEST RIM DRIVE) AT MP 3.00 ON LEFT			PUBLIC	5,236	AS	2
0904	6	1	75355		WATCHMAN OVERLOOK PARKING	FROM ROUTE 0014 (WEST RIM DRIVE) AT MP 3.76 ON RIGHT	TO ROUTE 0014 (WEST RIM DRIVE) AT MP 3.81 ON RIGHT		PUBLIC	13,637	AS	2
0905	6	1	75359		DIAMOND LAKE OVERLOOK	ADJACENT TO ROUTE 0014 (WEST RIM DRIVE) AT MP 4.46 ON LEFT			PUBLIC	12,553	AS	2
0906	6	1	75361		GLACIAL VALLEYS	ADJACENT TO ROUTE 0014 (WEST RIM DRIVE) AT MP 5.70 ON RIGHT			PUBLIC	20,209	AS	2
0907	6	1	75363		NORTH JUNCTION PARKING	FROM ROUTE 0014 (WEST RIM DRIVE) AT MP 5.86 ON RIGHT	TO ROUTE 0013 (EAST RIM DRIVE) AT MP 0.03 ON RIGHT		PUBLIC	26,047	AS	2

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Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description From	Route Description To	Maintenance District	Access Level	Area (SQ FT)	Surf. Type	Area Map
0908	NC		75365		PACIFIC CREST TRAIL PARKING A	ADJACENT TO ROUTE 0010 (NORTH ENTRANCE ROAD) AT MP 2.53 ON LEFT			PUBLIC		GR	
0909	6	1	75367		PUMICE DESERT	FROM ROUTE 0010 (NORTH ENTRANCE ROAD) AT MP 4.89 ON LEFT	TO ROUTE 0010 (NORTH ENTRANCE ROAD) AT MP 4.92 ON LEFT		PUBLIC	11,094	AS	1
0910	6	1	75369		PACIFIC CREST TRAIL PULLOUT	ADJACENT TO ROUTE 0011 (CRATER LAKE HIGHWAY) AT MP 6.90 ON LEFT			PUBLIC	2,338	AS	2
0911	NC		75371		PACIFIC CREST TRAIL PARKING C	ADJACENT TO ROUTE 0011 (CRATER LAKE HIGHWAY) AT MP 6.92 ON LEFT			PUBLIC		GR	
0912	6	1	78343	■	MAZAMA DORM, BUILDING A, REAR PARKING	FROM ROUTE 0400 (MAZAMA DORMITORIES ACCESS) AT MP 0.16 ON LEFT	TO PARKING		NONPUBLIC	10,513	AS	2B
0913	6	1	78347	■	MAZAMA DORM EMPLOYEE PARKING AND RV	FROM ROUTE 0400 (MAZAMA DORMITORIES ACCESS) AT MP 0.38 ON RIGHT	TO ROUTE 0400 (MAZAMA DORMITORIES ACCESS) AT MP 0.40 ON RIGHT		NONPUBLIC	34,631	AS	2B
0914	6	1	75373		FOSSIL FUMAROLES - GODFREY GLEN OVERLOOK	ADJACENT TO ROUTE 0011 (CRATER LAKE HIGHWAY) AT MP 8.77 ON LEFT			PUBLIC	15,880	AS	2
0915	6	1	75376		LODGE POLE PICNIC AREA	FROM ROUTE 0011 (CRATER LAKE HIGHWAY) AT MP 10.18 ON LEFT	TO ROUTE 0011 (CRATER LAKE HIGHWAY) AT MP 10.40 ON LEFT		PUBLIC	42,082	AS	4
0916	6	1	75378		ANNIE FALLS PICNIC AREA	FROM ROUTE 0011 (CRATER LAKE HIGHWAY) AT MP 12.40 ON LEFT	TO ROUTE 0011 (CRATER LAKE HIGHWAY) AT MP 12.57 ON LEFT		PUBLIC	33,111	AS	4
0917	6	1	78383		NO NAME PICNIC AREA	FROM ROUTE 0011 (CRATER LAKE HIGHWAY) AT MP 13.23 ON LEFT	TO ROUTE 0011 (CRATER LAKE HIGHWAY) AT MP 13.29 ON LEFT		PUBLIC	9,728	AS	4
0918	6	1	75380		PONDEROSA PICNIC AREA	FROM ROUTE 0011 (CRATER LAKE HIGHWAY) AT MP 16.79 ON LEFT	TO ROUTE 0011 (CRATER LAKE HIGHWAY) AT MP 17.02 ON LEFT		PUBLIC	68,175	AS	4
0919	6	1	75383		GOODBYE PICNIC AREA	FROM ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 1.30 ON LEFT	TO PARKING		PUBLIC	9,084	AS	2
0920	6	1	75386		GODFREY GLEN TRAIL PARKING	FROM ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 1.67 ON RIGHT	TO ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 1.78 ON RIGHT		PUBLIC	23,915	AS	2

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Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description From	Route Description To	Maintenance District	Access Level	Area (SQ FT)	Surf. Type	Area Map
0921	6	1	75388		HEADQUARTERS VISITOR CENTER PARKING	FROM ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 3.98 ON LEFT	TO ROUTE 0404ZZ (HEADQUARTERS RESIDENCE ROADS) AND ROUTE 0402ZZ (HEADQUARTERS MAINTENANCE AND PARKING AREAS)		PUBLIC	34,338	AS	2A
0922ZZ	6	1	75389	■	CAFETERIA AND GIFT SHOP PARKING AREAS	FROM ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 6.85 ON RIGHT AND LEFT	TO ROUTE 0012 (MUNSON VALLEY ROAD)		PUBLIC	39,844	AS	2A
0923ZZ	6	1	75390		VISITOR CENTER AND SINNOTT OVERLOOK PARKING AREAS	ADJACENT TO ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 6.95 ON RIGHT AND LEFT			PUBLIC	49,492	AS	2A
0924	6	1	75391	■	CRATER LAKE LODGE PARKING	FROM END OF ROUTE 0012 (MUNSON VALLEY ROAD)	TO ROUTE 0403 (CRATER LAKE LODGE RESIDENCE ROAD) AT START		PUBLIC	33,826	AS	2A
0925	6	1	75392	■	CRATER LAKE LODGE RESIDENCE PARKING	FROM END OF ROUTE 0403 (CRATER LAKE LODGE RESIDENCE ROAD)	TO PARKING		NONPUBLIC	8,203	AS	2A
0926	6	1	75493		CLEETWOOD (PUMICE POINT) PICNIC AREA	FROM ROUTE 0013 (EAST RIM DRIVE) AT MP 3.63 ON LEFT	TO ROUTE 0013 (EAST RIM DRIVE) AT MP 3.67 ON LEFT		PUBLIC	3,941	AS	3
0927	6	1	75496	■	CLEETWOOD TRAIL PARKING	FROM ROUTE 0013 (EAST RIM DRIVE) AT MP 4.53 ON LEFT	TO PARKING		PUBLIC	39,231	AS	3
0928	6	1	75497		THE CLEETWOOD OVER FLOW PARKING	ADJACENT TO ROUTE 0013 (EAST RIM DRIVE) AT MP 4.71 ON RIGHT			PUBLIC	4,263	AS	3
0929	6	1	75498		LOWER SKELL OVERLOOK	FROM ROUTE 0013 (EAST RIM DRIVE) AT MP 7.83 ON RIGHT	TO ROUTE 0013 (EAST RIM DRIVE) AT MP 7.86 ON RIGHT		PUBLIC	13,974	AS	3
0930	6	1	75499		OVERLOOK PARKING	FROM ROUTE 0013 (EAST RIM DRIVE) AT MP 7.96 ON RIGHT	TO ROUTE 0013 (EAST RIM DRIVE) AT MP 7.99 ON RIGHT		PUBLIC	5,825	AS	3
0931	6	1	75500		SKELL HEAD PICNIC AREA	FROM ROUTE 0013 (EAST RIM DRIVE) AT MP 8.46 ON RIGHT	TO PARKING		PUBLIC	3,564	AS	3
0932	6	1	75501		SKELL HEAD OVERLOOK	FROM ROUTE 0013 (EAST RIM DRIVE) AT MP 8.62 ON RIGHT	TO ROUTE 0013 (EAST RIM DRIVE) AT MP 8.70 ON RIGHT		PUBLIC	28,883	AS	3
0933	6	1	75502		WHITEBARK PICNIC AREA	FROM ROUTE 0013 (EAST RIM DRIVE) AT MP 10.85 ON LEFT	TO PARKING		PUBLIC	5,875	AS	3

Cycle 6 NPS / RIP Route ID Report

Report Date: 02/25/2016

(Numerical By Summary Route and Subcomponent #)

Federal Lands Highway
Road Inventory Program

Shading Color Key

White = Paved Routes, DCV Driven	Grey = Paved Routes, DCV not Driven	Black = Non-NPS Routes	= Concession Route
Yellow = Unpaved Routes, DCV not Driven	Blue = Paved Parking Areas	Green = Unpaved Parking Areas	

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CRLA *Crater Lake National Park*

PARKING AREA INVENTORY (1300 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description From	Route Description To	Maintenance District	Access Level	Area (SQ FT)	Surf. Type	Area Map
0934	6	1	75503		MOUNT SCOTT TRAIL PARKING	ADJACENT TO ROUTE 0013 (EAST RIM DRIVE) AT MP 10.97 ON LEFT			PUBLIC	10,636	AS	3
0935	6	1	75504		CLOUDCAP OVERLOOK	ADJACENT TO ROUTE 0201ZZ (CLOUDCAP VIEWPOINT ROADS)			PUBLIC	3,955	AS	3
0936	6	1	75506		PUMICE CASTLE	ADJACENT TO ROUTE 0013 (EAST RIM DRIVE) AT MP 12.37 ON RIGHT			PUBLIC	15,925	AS	3
0937	6	1	75507		CASTLE ROCK OVERLOOK	FROM ROUTE 0013 (EAST RIM DRIVE) AT MP 12.60 ON RIGHT	TO ROUTE 0013 (EAST RIM DRIVE) AT MP 12.67 ON RIGHT		PUBLIC	12,731	AS	3
0938	6	1	75508		SENTINEL POINT OVERLOOK	FROM ROUTE 0013 (EAST RIM DRIVE) AT MP 12.81 ON RIGHT	TO ROUTE 0013 (EAST RIM DRIVE) AT MP 12.87 ON RIGHT		PUBLIC	13,386	AS	3
0939	6	1	75509		PHANTOM SHIP OVERLOOK	FROM ROUTE 0013 (EAST RIM DRIVE) AT MP 14.77 ON RIGHT	TO ROUTE 0013 (EAST RIM DRIVE) AT MP 14.86 ON RIGHT		PUBLIC	23,095	AS	3
0940	6	1	75510		THE PINNACLES OVERLOOK	FROM END OF ROUTE 0100 (PINNACLES ROAD)	TO PARKING		PUBLIC	14,227	AS	3
0941	6	1	75511		SUN NOTCH PARKING	ADJACENT TO ROUTE 0013 (EAST RIM DRIVE) AT MP 18.84 ON RIGHT			PUBLIC	10,951	AS	3
0942	6	1	75512		VIDAE FALLS PARKING	ADJACENT TO ROUTE 0013 (EAST RIM DRIVE) AT MP 20.21 ON RIGHT			PUBLIC	4,278	AS	3
0943	6	1	75513		CRATER PEAK TRAIL PARKING	FROM END OF ROUTE 0204 (VIDAE FALLS PICNIC AREA LOOP)	TO PARKING		PUBLIC	10,134	AS	3
0944	6	1	75514		CASTLE CREST PARKING	ADJACENT TO ROUTE 0013 (EAST RIM DRIVE) AT MP 22.85 ON RIGHT			PUBLIC	1,489	AS	2
0945	6	1	75515		MOUNT SCOTT OVERLOOK	ADJACENT TO ROUTE 0201ZZ (CLOUDCAP VIEWPOINT ROADS)			PUBLIC	7,427	AS	3
0946	6	1	75516		ADMINISTRATION PARKING	FROM ROUTE 0404ZZ (HEADQUARTERS RESIDENCE ROADS)	TO PARKING		NONPUBLIC	10,459	AS	2A
0947ZZ	6	1	99597		MAZAMA STORE PARKING AREAS	FROM ROUTE 0200 (MAZAMA VILLAGE ENTRANCE ROAD) ON LEFT AND RIGHT	TO ROUTE 0200 (MAZAMA VILLAGE ENTRANCE ROAD) AT MP 0.45 ON LEFT		PUBLIC	75,075	AS	2B

Cycle 6 NPS / RIP Route ID Report

Report Date: 02/25/2016

(Numerical By Summary Route and Subcomponent #)

Federal Lands Highway
Road Inventory Program

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■ = Concession Route

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NC = Not Collected

CRLA *Crater Lake National Park*

PARKING AREA INVENTORY (1300 SERIES FMSS LOCATIONS)

Route No.	Cycle Collected	Iteration Collected	FMSS Number	Concession	Route Name	Route Description From	Route Description To	Maintenance District	Access Level	Area (SQ FT)	Surf. Type	Area Map
0948	NC		102895		EQUIPMENT PARKING (BALL DIAMOND)	FROM ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 3.62 ON LEFT	TO PARKING		NONPUBLIC		GR	
0949	6	1	99598		NORTH ENTRANCE RESTROOM PARKING	ADJACENT TO ROUTE 0010 (NORTH ENTRANCE ROAD) AT MP 8.31 ON LEFT			PUBLIC	4,730	AS	1
0951	6	1	99603		WEST ENTRANCE PARKING AREA	ADJACENT TO ROUTE 0011 (CRATER LAKE HIGHWAY) AT MP 1.00 ON RIGHT			PUBLIC	3,650	AS	2
0952	NC		99604		SOUTH MAINTENANCE YARD	FROM END OF ROUTE 0405 (SOUTH YARD EQUIPMENT PARKING AREA)	TO PARKING		NONPUBLIC	39,216	GR	
0955ZZ	6	1			MOTOR LODGE PARKING AREAS	ADJACENT TO ROUTE 0202ZZ (MAZAMA MOTOR LODGE ROADS)			PUBLIC	13,570	AS	2B
0956	6	1	228419		PLAIKNI TRAIL PARKING	ADJACENT TO ROUTE 0100 (PINNACLES ROAD)			PUBLIC	6,182	AS	3

Cycle 6 NPS / RIP Route ID Report

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= Concession Route

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Cycle 6 Summary Totals for Crater Lake National Park

Cycle 6 Route Totals

	NPS Maintained	Concessionaire Maintained	Park Totals
Paved Roads, Data Collection Vehicle Rated (Miles)	73.21	2.38	**75.59**
Paved Roads, Manually Rated Length (Miles)	1.07	0	**1.07**
Paved Roads, Manually Rated Area (Sq. Ft.)	92,626	0	**92,626**
Unpaved Roads (Miles)	7.04	0	**7.04**
Paved Parking (Sq. Ft.)	722,926	166,248	**889,174**
Unpaved Parking (Sq. Ft.)	39,216	0	**39,216**

Cycle 6 Lane Miles and Overall Pavement Condition

	Lanes Miles*	Pavement Condition Rating**
Data Collection Vehicle Routes	161.25	93
Manually Rated Roads	2.83	68
Parking Areas	15.31	77

* Equivalent Lane Miles are calculated by route using the following equations:
- DCV and MRLs = (PAVE_WIDTH x PAVED_MI) / 11 foot lane
- MRPs and PKGs = SQ_FEET / 5280 / 11 foot lane

**Parking and Manually Rated Routes are assigned the following PCR values based on the type of observed distresses:
-Excellent = 97 -Good = 90 -Fair = 73
-Poor = 53, 30, or 0 -Construction / Not Rated = -1

Cycle 6 NPS / RIP Route ID Report

Report Date: 02/25/2016

(Numerical By Summary Route and Subcomponent #)

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= Concession Route

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General Park Road Functional Classification (FC) Table

FC	Type	User Access	Description	Route Numbers
1	Principal Park Road Rural Parkway	Public	Roads which constitute the main access route, circulatory tour, or thoroughfare for park visitors. Rural Parkways (e.g. Natchez Trace) are numbered 0001 - 0009.	0001 - 0009 0010 - 0099
2	Connector Park Road	Public	Roads which provide access within a park to areas of scenic, scientific, recreational or cultural interest, such as overlooks, campgrounds, etc.	0100 - 0199
3	Special Purpose Park Road	Public	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.	0200 - 0299
4	Primitive Park Road	Public	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. Note: Functional Classes 3 and 4 have the same route numbers because, historically, they were numbered similarly.	0200 - 0299
5	Administrative Park Road	Public	All public roads intended for access to administrative developments or structures such as park offices, employee quarters, or utility areas.	0400 - 0499
6	Administrative Park Road (Restricted Access)	Nonpublic	All roads normally closed to the public, including patrol roads, truck trails, and other similar roads. 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.	0400 - 0499
7	Urban Parkway	Public	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.	0001 - 0009
8	City Street	Public	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.	0600 - 0699
N/A	Non-NPS Roads	Public	State, County, or City owned roads which border, traverse, or provide access to Park Facilities or Locations. Non-NPS roads are not assigned functional classes and are driven for GPS and Video Log only.	5000 - 5999

Surface Types
AS - Asphaltic Concrete Pavement
BR - Brick or Pavers Road Bed
CB - Cobble Stone Road Bed
CO - Portland Cement Concrete Pavement
GR - Gravel Road Bed
NV - Native or Dirt 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 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.

Report Date: 02/25/2016

NPS / RIP Subcomponent Details for CRLA

(Numerical By Summary Route and Subcomponent #)

Federal Lands Highway
Road Inventory Program

Shading Color Key

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Black = Paved Routes, Non-NPS

= Concession Route

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Blue = Paved Parking Areas

Green = Unpaved Parking Areas

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CRLA *Crater Lake National Park*

SUMMARY ROUTE INVENTORY FOR ROADS (1100 SERIES FMSS LOCATIONS)

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description From	Route Description To	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
0201ZZ	75125	6	1		CLOUDCAP VIEWPOINT ROADS	FROM ROUTE 0013 (EAST RIM DRIVE) AT MP 11.10 ON RIGHT	TO END OF LOOP	1.33	0.00	1.33	2	
0202ZZ	75126	6	1		MAZAMA MOTOR LODGE ROADS	FROM ROUTE 0200 (MAZAMA VILLAGE ENTRANCE ROAD) AT MP 0.28 ON RIGHT	TO END OF LOOPS	0.50	0.00	0.50	3	
0207ZZ	75134	6	1		PICNIC HILL LOOPS	FROM ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 7.16 ON RIGHT	THROUGH PICNIC AREA	0.89	0.00	0.89	3	
0401ZZ	75139	6	1		HEADQUARTERS RESIDENCE AREA ROADS	FROM ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 3.74 ON RIGHT	THROUGH HEADQUARTERS RESIDENCE AREA	0.66	0.00	0.66	6	
0402ZZ	75141	6	1		HEADQUARTERS MAINTENANCE AND PARKING AREAS	FROM ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 3.73 ON LEFT	THROUGH HEADQUARTERS AND MAINTENANCE AREA TO ROUTE 0921 (HEADQUARTERS VISITOR CENTER PARKING)	0.33	0.00	0.33	6	
0404ZZ	75144	6	1		HEADQUARTERS RESIDENCE ROADS	FROM ROUTE 0921 (HEADQUARTERS VISITOR CENTER PARKING)	THROUGH RESIDENCE AREA	0.48	0.00	0.48	6	

SUMMARY ROUTE INVENTORY FOR PARKING AREAS (1300 SERIES FMSS LOCATIONS)

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description From	Route Description To	User Access	Area (SQ FT)
0922ZZ	75389	6	1	■	CAFETERIA AND GIFT SHOP PARKING AREAS	FROM ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 6.85 ON RIGHT AND LEFT	TO ROUTE 0012 (MUNSON VALLEY ROAD)	PUBLIC	39,844
0923ZZ	75390	6	1		VISITOR CENTER AND SINNOTT OVERLOOK PARKING AREAS	FROM ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 6.95 ON RIGHT	TO ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 7.18 ON RIGHT	PUBLIC	49,492
0947ZZ	99597	6	1		MAZAMA STORE PARKING AREAS	FROM ROUTE 0200 (MAZAMA VILLAGE ENTRANCE ROAD) ON LEFT AND RIGHT	TO ROUTE 0200 (MAZAMA VILLAGE ENTRANCE ROAD) AT MP 0.45 ON LEFT	PUBLIC	75,075
0955ZZ		6	1		MOTOR LODGE PARKING AREAS	ADJACENT TO ROUTE 0202ZZ (MAZAMA MOTOR LODGE ROADS)		PUBLIC	13,570

NPS / RIP Subcomponent Details for CRLA

(Numerical By Summary Route and Subcomponent #)

Federal Lands Highway
Road Inventory Program

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Yellow = Unpaved Routes, DCV not Driven	Blue = Paved Parking Areas	Green = Unpaved Parking Areas	

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CRLA *Crater Lake National Park*

CRLA-0201ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description From	Route Description To	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
0201AZ	75125	6	1		CLOUDCAP VIEWPOINT ROAD	FROM ROUTE 0013 (EAST RIM DRIVE) AT MP 11.10 ON RIGHT	TO END OF LOOP	1.17	0.00	1.17	2	
0201BZ	75125	6	1		CLOUDCAP VIEWPOINT ROAD SPUR	FROM ROUTE 0013 (EAST RIM DRIVE) AT MP 11.29 ON RIGHT	TO ROUTE 0201AZ (CLOUDCAP VIEWPOINT ROAD) AT MP 0.20 ON LEFT	0.16	0.00	0.16	2	

CRLA-0202ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description From	Route Description To	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
0202AZ	75126	6	1		MAZAMA MOTOR LODGE LOOP ROAD	FROM ROUTE 0200 (MAZAMA VILLAGE ENTRANCE ROAD) AT MP 0.28 ON RIGHT	TO END OF LOOP	0.42	0.00	0.42	3	
0202BZ	75126	6	1		MAZAMA MOTOR LODGE ROAD	FROM ROUTE 0202AZ (MAZAMA MOTOR LODGE LOOP ROAD)	TO ROUTE 0202AZ (MAZAMA MOTOR LODGE LOOP ROAD)	0.09	0.00	0.09	3	

Report Date: 02/25/2016

NPS / RIP Subcomponent Details for CRLA

(Numerical By Summary Route and Subcomponent #)

Federal Lands Highway
Road Inventory Program

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Grey = Paved Routes, DCV not Driven

Black = Paved Routes, Non-NPS

= Concession Route

Yellow = Unpaved Routes, DCV not Driven

Blue = Paved Parking Areas

Green = Unpaved Parking Areas

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CRLA *Crater Lake National Park*

CRLA-0207ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description From	Route Description To	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
0207AZ	75134	6	1		PICNIC HILL LOOP A	FROM ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 7.16 ON RIGHT	TO END OF LOOP	0.41	0.00	0.41	3	
0207BZ	75134	6	1		PICNIC HILL LOOP B	FROM ROUTE 0207AZ (PICNIC HILL LOOP A)	TO ROUTE 0207AZ (PICNIC HILL LOOP A)	0.25	0.00	0.25	3	
0207CZ	75134	6	1		PICNIC HILL LOOP C	FROM ROUTE 0207AZ (PICNIC HILL LOOP A)	TO ROUTE 0207BZ (PICNIC HILL LOOP B)	0.17	0.00	0.17	3	
0207DZ	75134	6	1		PICNIC HILL LOOP D	FROM ROUTE 0207CZ (PICNIC HILL LOOP C)	TO ROUTE 0207CZ (PICNIC HILL LOOP C)	0.06	0.00	0.06	3	

CRLA-0401ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description From	Route Description To	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
0401AZ	75139	6	1		HEADQUARTERS RESIDENCE AREA OUTER LOOP ROAD	FROM ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 3.74 ON RIGHT AND ROUTE 0402AZ (HEADQUARTERS MAINTENANCE AREA)	TO END OF LOOP	0.48	0.00	0.48	6	
0401BZ	75139	6	1		HEADQUARTERS RESIDENCE AREA INNER LOOP ROAD	FROM ROUTE 0401AZ (HEADQUARTERS RESIDENCE AREA OUTER LOOP ROAD) AT MP 0.05 ON LEFT	TO ROUTE 0401AZ (HEADQUARTERS RESIDENCE AREA OUTER LOOP ROAD) AT MP 0.33 ON LEFT	0.14	0.00	0.14	6	
0401CZ	75139	6	1		HEADQUARTERS RESIDENCE AREA CUT THROUGH ROAD	FROM ROUTE 0401AZ (HEADQUARTERS RESIDENCE AREA OUTER LOOP ROAD) AT MP 0.37 ON LEFT	TO ROUTE 0401BZ (HEADQUARTERS RESIDENCE AREA INNER LOOP ROAD) AT MP 0.06 ON LEFT	0.04	0.00	0.04	6	

Report Date: 02/25/2016

NPS / RIP Subcomponent Details for CRLA

(Numerical By Summary Route and Subcomponent #)

Federal Lands Highway
Road Inventory Program

Shading Color Key

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Yellow = Unpaved Routes, DCV not Driven	Blue = Paved Parking Areas	Green = Unpaved Parking Areas

■ = Concession Route

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NC = Not Collected

CRLA *Crater Lake National Park*

CRLA-0402ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description From	Route Description To	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
0402AZ	75141	6	1		HEADQUARTERS MAINTENANCE AREA	FROM ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 3.73 ON LEFT	TO ROUTE 0402BZ (HEADQUARTERS RESIDENCE AREA)	0.00	0.00	0.00	6	92,626
0402BZ	75141	6	1		HEADQUARTERS RESIDENCE AREA	FROM ROUTE 0402AZ (HEADQUARTERS MAINTENANCE AREA)	TO END OF LOOP	0.33	0.00	0.33	6	

CRLA-0404ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description From	Route Description To	Paved Miles	Unpaved Miles	Total Mileage	Functional Class	Area (SQ FT)
0404AZ	75144	6	1		HEADQUARTERS RESIDENCE ROAD	FROM ROUTE 0921 (HEADQUARTERS VISITOR CENTER PARKING)	TO END	0.30	0.00	0.30	6	
0404BZ	75144	6	1		HEADQUARTERS RESIDENCE LOOP	FROM ROUTE 0404AZ (HEADQUARTERS RESIDENCE ROAD)	TO ROUTE 0404AZ (HEADQUARTERS RESIDENCE ROAD)	0.12	0.00	0.12	6	
0404CZ	75144	6	1		HEADQUARTERS RESIDENCE STREET	FROM ROUTE 0404AZ (HEADQUARTERS RESIDENCE ROAD)	TO END	0.06	0.00	0.06	6	

CRLA-0922ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description From	Route Description To	User Access	Area (SQ FT)
0922AZ	75389	6	1	■	CAFETERIA AND GIFT SHOP PARKING A	FROM ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 6.85 ON RIGHT	TO PARKING	PUBLIC	19,049
0922BZ	75389	6	1	■	CAFETERIA AND GIFT SHOP PARKING B	FROM ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 6.85 ON LEFT	TO ROUTE 0012 (MUNSON VALLEY ROAD)	PUBLIC	20,795

NPS / RIP Subcomponent Details for CRLA

(Numerical By Summary Route and Subcomponent #)

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Road Inventory Program

Shading Color Key

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Grey = Paved Routes, DCV not Driven
Black = Paved Routes, Non-NPS
= Concession Route
Yellow = Unpaved Routes, DCV not Driven
Blue = Paved Parking Areas
Green = Unpaved Parking Areas

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PKG = Parking Areas
NC = Not Collected

CRLA *Crater Lake National Park*

CRLA-0923ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description From	Route Description To	User Access	Area (SQ FT)
0923AZ	75390	6	1		VISITOR CENTER AND SINNOTT OVERLOOK PARKING A	ADJACENT TO ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 7.18 ON RIGHT		PUBLIC	3,359
0923BZ	75390	6	1		VISITOR CENTER AND SINNOTT OVERLOOK PARKING B	ADJACENT TO ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 7.08 ON RIGHT		PUBLIC	13,682
0923CZ	75390	6	1		VISITOR CENTER AND SINNOTT OVERLOOK PARKING C	ADJACENT TO ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 7.14 ON LEFT		PUBLIC	18,106
0923DZ	75390	6	1		VISITOR CENTER AND SINNOTT OVERLOOK PARKING D	ADJACENT TO ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 6.96 ON LEFT		PUBLIC	8,398
0923EZ	75390	6	1		VISITOR CENTER AND SINNOTT OVERLOOK PARKING E	ADJACENT TO ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 6.95 ON RIGHT		PUBLIC	5,947

CRLA-0947ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description From	Route Description To	User Access	Area (SQ FT)
0947AZ	99597	6	1		MAZAMA VILLAGE STORE PARKING A	FROM ROUTE 0200 (MAZAMA VILLAGE ENTRANCE ROAD) AT MP 0.15 ON LEFT	TO ROUTE 0200 (MAZAMA VILLAGE ENTRANCE ROAD AT MP 0.45 ON LEFT	PUBLIC	42,165
0947BZ	99597	6	1		MAZAMA VILLAGE STORE PARKING B	ADJACENT TO ROUTE 0200 (MAZAMA VILLAGE ENTRANCE ROAD) AT MP 0.22 ON RIGHT		PUBLIC	4,138
0947CZ	99597	6	1		MAZAMA VILLAGE STORE PARKING C	FROM ROUTE 0200 (MAZAMA VILLAGE ENTRANCE ROAD) AT MP 0.18 ON RIGHT	TO PARKING	PUBLIC	3,600
0947DZ	99597	6	1		ANNIE CREEK RESTAURANT PARKING	FROM ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 0.07 ON RIGHT	TO ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 0.16 ON RIGHT	PUBLIC	15,899
0947EZ	99597	6	1		MAZAMA DUMP STATION	FROM ROUTE 0203G (MAZAMA CAMPGROUND LOOP G)	TO ROUTE 0203G (MAZAMA CAMPGROUND LOOP G)	PUBLIC	9,273

Report Date: 02/25/2016

NPS / RIP Subcomponent Details for CRLA

(Numerical By Summary Route and Subcomponent #)

Federal Lands Highway
Road Inventory Program

Shading Color Key

White = Paved Routes, DCV Driven	Grey = Paved Routes, DCV not Driven	Black = Paved Routes, Non-NPS
Yellow = Unpaved Routes, DCV not Driven	Blue = Paved Parking Areas	Green = Unpaved Parking Areas

■ = Concession Route

Red text denotes:
*Unpaved route data was obtained from the NPS and was not collected by the Road Inventory Program (RIP).

DCV = Data Collection Vehicle
MRL = Manually Rated Line
MRP = Manually Rated Polygon
PKG = Parking Areas
NC = Not Collected

CRLA *Crater Lake National Park*

CRLA-0955ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description From	Route Description To	User Access	Area (SQ FT)
0955AZ		6	1		MOTOR LODGE PARKING A	ADJACENT TO ROUTE 0202AZ (MAZAMA MOTOR LODGE LOOP ROAD)		PUBLIC	7,300
0955BZ		6	1		MOTOR LODGE PARKING B	ADJACENT TO ROUTE 0202AZ (MAZAMA MOTOR LODGE LOOP ROAD)		PUBLIC	3,771
0955CZ		6	1		MOTOR LODGE PARKING C	ADJACENT TO ROUTE 0202AZ (MAZAMA MOTOR LODGE LOOP ROAD)		PUBLIC	2,499

Route Identification Changes to Paved Routes from Previous Cycle
Crater Lake National Park

ROUTES ADDED FROM PREVIOUS INVENTORY:			
Route No.	**Route Name**	**Type of Change**	**Comments**
0956	PLAIKNI TRAIL PARKING	OTHER	PAVED PARKING ADDED IN CYCLE 6.

ROUTES MODIFIED FROM PREVIOUS INVENTORY:			
Route No.	**Route Name**	**Type of Change**	**Comments**
0203A	MAZAMA CAMPGROUND LOOP A	ROUTE SPLIT	ROUTE 0203ZZ (MAZAMA CAMPGROUND ROADS) WAS SPLIT INTO ROUTES 0203A-G.
0203B	MAZAMA CAMPGROUND LOOP B	ROUTE SPLIT	ROUTE 0203ZZ (MAZAMA CAMPGROUND ROADS) WAS SPLIT INTO ROUTES 0203A-G.
0203C	MAZAMA CAMPGROUND LOOP C	ROUTE SPLIT	ROUTE 0203ZZ (MAZAMA CAMPGROUND ROADS) WAS SPLIT INTO ROUTES 0203A-G.
0203D	MAZAMA CAMPGROUND LOOP D	ROUTE SPLIT	ROUTE 0203ZZ (MAZAMA CAMPGROUND ROADS) WAS SPLIT INTO ROUTES 0203A-G.
0203E	MAZAMA CAMPGROUND LOOP E	ROUTE SPLIT	ROUTE 0203ZZ (MAZAMA CAMPGROUND ROADS) WAS SPLIT INTO ROUTES 0203A-G.
0203F	MAZAMA CAMPGROUND LOOP F	ROUTE SPLIT	ROUTE 0203ZZ (MAZAMA CAMPGROUND ROADS) WAS SPLIT INTO ROUTES 0203A-G.
0203G	MAZAMA CAMPGROUND LOOP G	ROUTE SPLIT	ROUTE 0203ZZ (MAZAMA CAMPGROUND ROADS) WAS SPLIT INTO ROUTES 0203A-G.
0208	NORTH ENTRANCE TURNAROUND	OTHER	CYCLE 5 ROUTE 0950 WAS CHANGED FROM A PARKING AREA TO A ROAD (RTE. 0208) DURING THE ROUTE ID MEETING SINCE IT IS USED AS TURNAROUND POINT. PARKING IS NOT ALLOWED AT ANY TIME.
0904	WATCHMAN OVERLOOK PARKING	ROUTE NAME	ROUTE NAME CHANGED FROM "THE CORRALS" TO "WATCHMAN OVERLOOK PARKING".
0913	MAZAMA DORM EMPLOYEE PARKING AND RV	SQ FEET CHANGE	CAMPING PADS WERE REMOVED FROM THE SHAPE TO BE CONSISTENT WITH COLLECTION PROTOCOL.
0914	FOSSIL FUMAROLES - GODFREY GLEN OVERLOOK	OTHER	UPDATED ROUTE NAME TO INCLUDE "GODFREY GLEN OVERLOOK" TO MATCH FMSS NAME IN CYCLE 6. IMPROVED GPS AND SQUARE FOOTAGE WERE COLLECTED IN CYCLE 6.

Route Identification Changes to Paved Routes from Previous Cycle
Crater Lake National Park

ROUTES MODIFIED FROM PREVIOUS INVENTORY:			
Route No.	**Route Name**	**Type of Change**	**Comments**
0916	ANNIE FALLS PICNIC AREA	SQ FEET CHANGE	IMPROVED GPS AND SQUARE FOOTAGE WERE COLLECTED IN CYCLE 6.
0918	PONDEROSA PICNIC AREA	SQ FEET CHANGE	IMPROVED GPS AND SQUARE FOOTAGE WERE COLLECTED IN CYCLE 6.
0922ZZ	CAFETERIA AND GIFT SHOP PARKING AREAS	SQ FEET CHANGE	GPS UPDATED TO ADD THE ROAD SECTION NEXT TO THE PARKING AREA IN CYCLE 6.
0926	CLEETWOOD (PUMICE POINT) PICNIC AREA	SQ FEET CHANGE	IMPROVED GPS AND SQUARE FOOTAGE WERE COLLECTED IN CYCLE 6.
0939	PHANTOM SHIP OVERLOOK	SQ FEET CHANGE	PARKING AREA 0939 WAS RECONSTRUCTED SINCE CYCLE 4. UPDATED GPS WAS COLLECTED IN CYCLE 6.
0942	VIDAE FALLS PARKING	SQ FEET CHANGE	IMPROVED GPS AND SQUARE FOOTAGE WERE COLLECTED IN CYCLE 6.
0944	CASTLE CREST PARKING	SQ FEET CHANGE	IMPROVED GPS AND SQUARE FOOTAGE WERE COLLECTED IN CYCLE 6.
0947ZZ	MAZAMA STORE PARKING AREAS	ROUTES COMBINED	THE RESTAURANT (ROUTE 0953) AND DUMP STATION (ROUTE 0954) PARKING AREAS WERE COMBINED INTO THIS PARKING AREA GROUP.
0952	SOUTH MAINTENANCE YARD	SURFACE TYPE CHANGE	SURFACE TYPE CHANGED FROM ASPHALT TO GRAVEL IN CYCLE 6.
0955ZZ	MOTOR LODGE PARKING AREAS	SQ FEET CHANGE	IMPROVED GPS AND SQUARE FOOTAGE WERE COLLECTED IN CYCLE 6.

Section 3
Park Summary Information

Crater Lake National Park

Federal Lands Highway
Road Inventory Program

Parkwide Paved Route Condition Summary
Crater Lake National Park

Table 1: Paved Route Miles and Parking Area Square Footages by Access Level and PCR

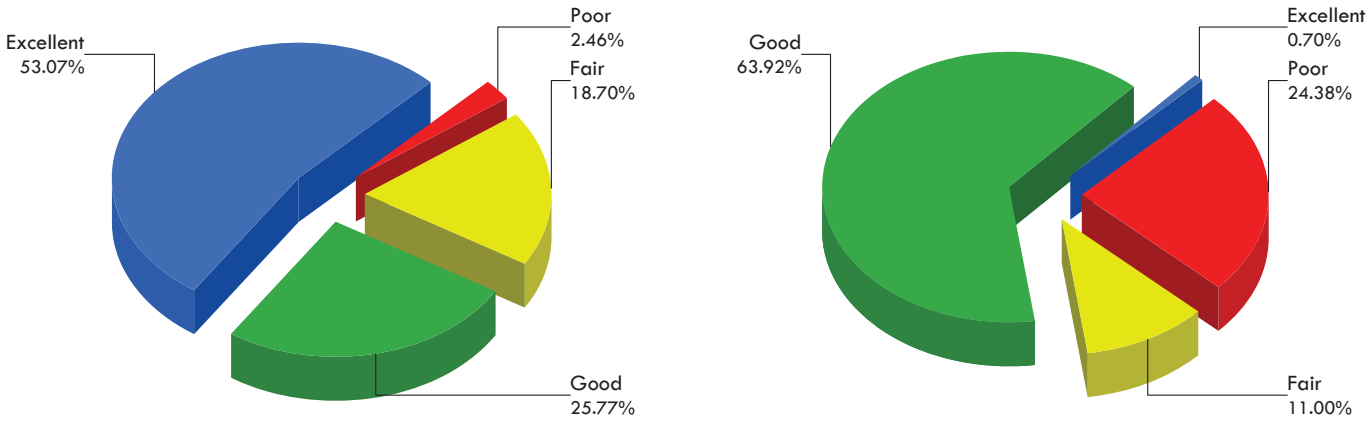
Breakdown of Pavement Condition Rating (PCR) Based on Access Level

	POOR (PCR of 0 - 60)	FAIR (PCR of 61 - 84)	GOOD (PCR of 85 - 94)	EXCELLENT (PCR of 95 -100)	
PAVED ROADS					
Functional Class	**Length (miles)**	**Length (miles)**	**Length (miles)**	**Length (miles)**	**Total Mileage by FC**
1	1.00	10.32	14.91	35.81	62.04
2	0.26	3.39	2.38	1.22	7.25
3	0.48	0.52	0.78	2.72	4.49
4					
5					
6	0.14	0.10	1.67	0.91	2.82
7					
8					
Total Mileage by PCR	**1.88**	**14.33**	**19.74**	**40.66**	**76.60**
PAVED PARKING					
Access Level	**Area (sq. ft.)**	**Area (sq. ft.)**	**Area (sq. ft.)**	**Area (sq. ft.)**	**Total Area**
PUBLIC	206,302	89,669	523,215	6,182	825,368
NONPUBLIC	10,459	8,203	45,144		63,806
Total Area by PCR	**216,761**	**97,872**	**568,359**	**6,182**	**889,174**

NOTES:

1. Data are reported in the table only for paved roads and parking lots that received a condition rating.
2. Non-linear roads (MRP collected routes) are measured by area and converted to equivalent route miles based on a 22-ft pavement width in order to be included in the mileage totals for paved roads shown above.
3. Quantities in the table above are derived from the route condition data within the PMS_20, PMS_MRL, PMS_MRP, and PMS_PKG tables in the Park geodatabase.

Parkwide Condition Percentages



Road Condition Percentages **Parking Area Condition Percentages**

Figure 1: Pavement Condition Rating Breakdown for Paved Roads and Parking Areas

Explanation of the Excellent, Good, Fair, and Poor Condition Descriptions

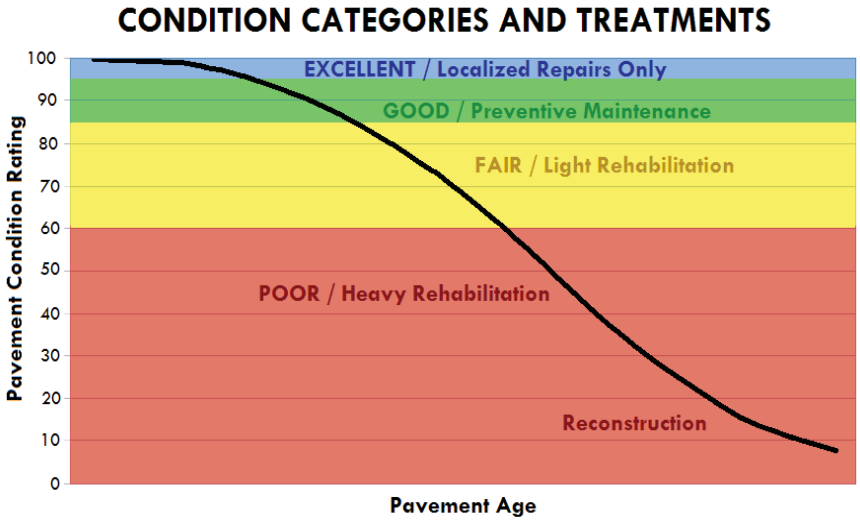
The Road Inventory Program aims to provide assistance in translating the excellent / good / fair / poor rating categories into pavement needs categories. The PCR can be used to indicate the place in the Pavement Life Cycle and the type of treatments that should be considered now and into the future.

- Excellent / New: PCR of 95-100
  - Pavements in this range will require only spot repairs

- Good: PCR of 85-94
  - Pavements in this range will likely be candidates for Preventive Maintenance. Examples include Chip and Slurry Seals, Micro Surfacing and Thin Overlays.

- Fair: PCR of 61-84
  - Pavements in this range will likely be candidates of Light Rehabilitation (L3R). Examples include singlelift overlays up to 2.5 inches in total thickness, milling and overlays.

- Poor: PCR of 0-60
  - Pavements in this range will likely be candidates of Heavy Rehabilitation or Reconstruction (H3R or 4R). Examples include Pulverization, Multiple Lift Overlays, and Reconstruction.



At this time, specific Maintenance and Rehabilitation activities should be evaluated and recommended at the project level. Site-specific conditions that influence treatment type should be determined based on performing a subsurface investigation and/or pavement condition survey, and not be based solely on RIP data. Additionally, RIP produces a snapshot of conditions at the time in which the data were collected. For further information or to obtain additional Pavement Management System's data from our Highway Pavement Management Application (HPMA) please contact the Eastern Federal Lands pavement team.

Federal Lands Highway
Road Inventory Program

Cycle 6 - Road Inventory Program
Road Condition Summary Report for Data Collection Vehicle (DCV) Rated Roads

Crater Lake National Park

Condition (Rating / Index) Legend

- EXCELLENT (95 - 100)
- GOOD (85 - 94)
- FAIR (61 - 84)
- POOR (0 - 60)
- NR = NOT RATED

Notes:

- This condition summary report contains only the roads rated with the Data Collection Vehicle (DCV).
- Condition on roads that were manually rated and parking areas are shown in separate reports.
- Additional details on individual road ratings can be found in Section 5 of the Cycle 6 RIP Report.
- Refer to the RIP Report Appendix for an explanation of the rating system and rating methods.

Route-Level Condition for Roads Rated with the Data Collection Vehicle (DCV)

Route No.	FMSS No.	Route Name	Functional Class	Surf. Type	Paved Length (Miles)	Pavement Condition Rating (PCR)	Roughness Condition Index (RCI)	Surface Condition Rating (SCR)	Structural Crack Index	Alligator Crack Index	Longitudinal Cracking Index	Transverse Cracking Index	Patch / Pothole Index	Rutting Index
CRLA-0010	74784	NORTH ENTRANCE ROAD	1	AS	9.15	99	100	98	100	100	100	100	100	98
CRLA-0011	74786	CRATER LAKE HIGHWAY	1	AS	17.43	95	97	94	100	100	100	98	100	94
CRLA-0012	74787	MUNSON VALLEY ROAD	1	AS	7.21	97	96	98	99	100	99	99	100	98
CRLA-0013	74788	EAST RIM DRIVE	1	AS	23.19	87	76	95	97	100	97	97	99	95
CRLA-0014	74789	WEST RIM DRIVE	1	AS	5.92	94	89	97	99	100	99	97	100	99
CRLA-0100	74790	PINNACLES ROAD	2	AS	5.92	80	56	96	97	100	97	97	100	96
CRLA-0200	75124	MAZAMA VILLAGE ENTRANCE ROAD	3	AS	0.46	95	NR	95	100	100	100	97	99	95
CRLA-0201AZ	75125	CLOUDCAP VIEWPOINT ROAD	2	AS	1.17	89	82	94	100	100	100	99	100	94
CRLA-0201BZ	75125	CLOUDCAP VIEWPOINT ROAD SPUR	2	AS	0.16	96	NR	96	100	100	100	100	100	96
CRLA-0202AZ	75126	MAZAMA MOTOR LODGE LOOP ROAD	3	AS	0.42	95	NR	95	98	100	98	95	100	98
CRLA-0202BZ	75126	MAZAMA MOTOR LODGE ROAD	3	AS	0.09	98	NR	98	100	100	100	98	100	99
CRLA-0203A	75127	MAZAMA CAMPGROUND LOOP A	3	AS	0.16	94	NR	94	100	100	100	100	100	94
CRLA-0203B	102869	MAZAMA CAMPGROUND LOOP B	3	AS	0.18	99	NR	99	100	100	100	100	100	99
CRLA-0203C	102871	MAZAMA CAMPGROUND LOOP C	3	AS	0.26	99	NR	99	100	100	100	100	100	99
CRLA-0203D	102872	MAZAMA CAMPGROUND LOOP D	3	AS	0.36	100	NR	100	100	100	100	100	100	100
CRLA-0203E	102874	MAZAMA CAMPGROUND LOOP E	3	AS	0.41	98	NR	98	100	100	100	100	100	98
CRLA-0203F	102875	MAZAMA CAMPGROUND LOOP F	3	AS	0.34	97	NR	97	100	100	100	100	97	98
CRLA-0203G	102876	MAZAMA CAMPGROUND LOOP G	3	AS	0.67	99	NR	99	100	100	100	100	100	99
CRLA-0204	75128	VIDAE FALLS PICNIC AREA LOOP	3	AS	0.23	86	NR	86	98	100	98	100	100	86

Data Collection Date: 07/2015

Federal Lands Highway
Road Inventory Program

Cycle 6 - Road Inventory Program
Road Condition Summary Report for
Data Collection Vehicle (DCV) Rated Roads

Crater Lake National Park

Condition (Rating / Index) Legend

- EXCELLENT (95 - 100)
- GOOD (85 - 94)
- FAIR (61 - 84)
- POOR (0 - 60)
- NR = NOT RATED

Notes:

- This condition summary report contains only the roads rated with the Data Collection Vehicle (DCV).
- Condition on roads that were manually rated and parking areas are shown in separate reports.
- Additional details on individual road ratings can be found in Section 5 of the Cycle 6 RIP Report.
- Refer to the RIP Report Appendix for an explanation of the rating system and rating methods.

Route-Level Condition for Roads Rated with the Data Collection Vehicle (DCV)

Route No.	FMSS No.	Route Name	Functional Class	Surf. Type	Paved Length (Miles)	Pavement Condition Rating (PCR)	Roughness Condition Index (RCI)	Surface Condition Rating (SCR)	Structural Crack Index	Alligator Crack Index	Longitudinal Cracking Index	Transverse Cracking Index	Patch / Pothole Index	Rutting Index
CRLA-0208	99599	NORTH ENTRANCE TURNAROUND	3	AS	0.03	99	NR	99	100	100	100	100	100	99
CRLA-0400	75137	MAZAMA DORMITORIES ACCESS	6	AS	0.43	97	NR	97	98	100	98	99	100	97
CRLA-0401AZ	75139	HEADQUARTERS RESIDENCE AREA OUTER LOOP ROAD	6	AS	0.48	96	NR	96	99	100	99	98	100	96
CRLA-0401BZ	75139	HEADQUARTERS RESIDENCE AREA INNER LOOP ROAD	6	AS	0.14	93	NR	93	99	100	99	99	99	93
CRLA-0401CZ	75139	HEADQUARTERS RESIDENCE AREA CUT THROUGH ROAD	6	AS	0.04	92	NR	92	100	100	100	100	100	92
CRLA-0402BZ	75141	HEADQUARTERS RESIDENCE AREA	6	AS	0.33	92	NR	92	95	100	95	92	100	97
CRLA-0403	75143	CRATER LAKE LODGE RESIDENCE ROAD	6	AS	0.12	89	NR	89	89	100	89	92	100	97
CRLA-0404AZ	75144	HEADQUARTERS RESIDENCE ROAD	6	AS	0.30	89	NR	89	89	100	89	97	99	94

Data Collection Date: 07/2015

Federal Lands Highway
Road Inventory Program

Cycle 6 - Road Inventory Program
Road Condition Summary Report for Manually Rated Roads

Crater Lake National Park

Condition (Rating / Index) Legend

- EXCELLENT (95 - 100)
- GOOD (85 - 94)
- FAIR (61 - 84)
- POOR (0 - 60)
- NR = NOT RATED

Notes:

- This condition summary report contains only the roads that were manually rated.
  - MRL = Manually Rated Line (a linear road)
  - MRP = Manually Rated Polygon (a non-linear road)
- Condition on roads that were rated with the Data Collection Vehicle (DCV) are shown in a separate report.
- A road is manually rated when it is determined to be unsuitable for the DCV to drive.
- Additional details on individual road ratings can be found in Section 5 of the Cycle 6 RIP Report.
- Refer to the RIP Report Appendix for an explanation of the rating system and rating methods.

Route-Level Condition for Manually Rated Line (MRL) Roads

Route No.	FMSS No.	Route Name	Functional Class	Surf. Type	Paved Length (Miles)	Pavement Condition Rating (PCR)	Roughness Condition Index (RCI)	Surface Condition Rating (SCR)	Structural Crack Index	Alligator Crack Index	Longitudinal Cracking Index	Transverse Cracking Index	Patch / Pothole Index	Rutting Index
CRLA-0207AZ	75134	PICNIC HILL LOOP A	3	AS	0.41	73	NR	73	NR	73	73	73	97	73
CRLA-0207BZ	75134	PICNIC HILL LOOP B	3	AS	0.25	0	NR	0	NR	NR	NR	NR	NR	NR
CRLA-0207CZ	75134	PICNIC HILL LOOP C	3	AS	0.17	53	NR	53	NR	53	73	73	97	73
CRLA-0207DZ	75134	PICNIC HILL LOOP D	3	AS	0.06	0	NR	0	NR	NR	NR	NR	NR	NR
CRLA-0404BZ	75144	HEADQUARTERS RESIDENCE LOOP	6	AS	0.12	0	NR	0	NR	NR	NR	NR	NR	NR
CRLA-0404CZ	75144	HEADQUARTERS RESIDENCE STREET	6	AS	0.06	90	NR	90	NR	97	97	90	97	97

Route-Level Condition for Manually Rated Polygon (MRP) Roads

							Asphalt Surface Distresses						Concrete Surface Distresses				
Route No.	FMSS No.	Route Name	Functional Class	Surf. Type	Area (Sq. Ft.)	Pavement Condition Rating (PCR)	Alligator Cracking	Longitudinal / Tranverse Cracking	Rutting / Distortions	Potholes / Patching	HMA Patching	Surface Raveling / Bleeding	Joint Faulting	Slab Cracking	Joint Distresses	Delamination / Pop-Outs	Potholes / Patching
CRLA-0402AZ	75141	HEADQUARTERS MAINTENANCE AREA	6	AS	92,626	90	97	90	97	97	97	90					

Route 0207BZ, 0207DZ and 0404BZ were given a Pavement Condition Rating (PCR) of 0 because it is in very poor condition. Individual distress indices could not be determined because of the excessive distress quantity and missing sections of pavement.

Data Collection Date: 06/2015

Federal Lands Highway
Road Inventory Program

Cycle 6 - Road Inventory Program
Parking Area Condition Summary Report
Crater Lake National Park

Condition (Rating / Index) Legend

- EXCELLENT (97)
- GOOD (90)
- FAIR (73)
- POOR* (0, 30, 53)
- NR = NOT RATED

Notes:

- A PCR of 0 indicates a paved parking area in very poor condition. Individual distresses could not be identified.
- Additional details on individual parking areas can be found in Section 6 of the Cycle 6 RIP Report.
- Refer to the RIP Report Appendix for an explanation of the rating system and rating methods.

Condition Rating Details for Parking Areas

Route No.	FMSS No.	Route Name	User Access	Surf. Type	Area (Sq. Ft.)	Pavement Condition Rating (PCR)	Asphalt Surface Distresses: Alligator Cracking	Asphalt Surface Distresses: Longitudinal / Tranverse Cracking	Asphalt Surface Distresses: Rutting / Distortions	Asphalt Surface Distresses: Potholes / Patching	Asphalt Surface Distresses: HMA Patching	Asphalt Surface Distresses: Surface Raveling / Bleeding	Concrete Surface Distresses: Joint Faulting	Concrete Surface Distresses: Slab Cracking	Concrete Surface Distresses: Joint Distresses	Concrete Surface Distresses: Delamination / Pop-Outs	Concrete Surface Distresses: Potholes / Patching
CRLA-0900	75343	DISCOVERY POINT	PUBLIC	AS	32,497	53	90	90	90	53	97	90					
CRLA-0902	75353	DISCOVERY POINT PICNIC AREA	PUBLIC	AS	5,285	53	73	53	53	97	97	73					
CRLA-0903	75354	UNION PEAK OVERLOOK	PUBLIC	AS	5,236	90	97	97	97	97	97	90					
CRLA-0904	75355	WATCHMAN OVERLOOK PARKING	PUBLIC	AS	13,637	53	90	53	90	90	97	90					
CRLA-0905	75359	DIAMOND LAKE OVERLOOK	PUBLIC	AS	12,553	90	97	90	97	97	97	90					
CRLA-0906	75361	GLACIAL VALLEYS	PUBLIC	AS	20,209	90	97	97	97	97	97	90					
CRLA-0907	75363	NORTH JUNCTION PARKING	PUBLIC	AS	26,047	90	97	90	97	97	97	90					
CRLA-0909	75367	PUMICE DESERT	PUBLIC	AS	11,094	73	97	90	90	97	97	73					
CRLA-0910	75369	PACIFIC CREST TRAIL PULLOUT	PUBLIC	AS	2,338	90	97	97	97	97	97	90					
CRLA-0912	78343	MAZAMA DORM, BUILDING A, REAR PARKING	NONPUBLIC	AS	10,513	90	97	90	97	97	97	97					
CRLA-0913	78347	MAZAMA DORM EMPLOYEE PARKING AND RV	NONPUBLIC	AS	34,631	90	97	90	97	97	97	90					
CRLA-0914	75373	FOSSIL FUMAROLES - GODFREY GLEN OVERLOOK	PUBLIC	AS	15,880	90	97	97	90	97	97	90					
CRLA-0915	75376	LODGE POLE PICNIC AREA	PUBLIC	AS	42,082	90	97	97	90	97	97	90					
CRLA-0916	75378	ANNIE FALLS PICNIC AREA	PUBLIC	AS	33,111	90	97	97	90	97	97	90					
CRLA-0917	78383	NO NAME PICNIC AREA	PUBLIC	AS	9,728	90	97	97	97	97	97	90					
CRLA-0918	75380	PONDEROSA PICNIC AREA	PUBLIC	AS	68,175	90	97	97	90	97	97	90					
CRLA-0919	75383	GOODBYE PICNIC AREA	PUBLIC	AS	9,084	90	97	90	97	97	97	97					
CRLA-0920	75386	GODFREY GLEN TRAIL PARKING	PUBLIC	AS	23,915	90	97	97	97	97	97	90					
CRLA-0921	75388	HEADQUARTERS VISITOR CENTER PARKING	PUBLIC	AS	34,338	90	90	90	97	97	97	90					
CRLA-0922AZ	75389	CAFETERIA AND GIFT SHOP PARKING A	PUBLIC	AS	19,049	90	97	90	97	97	97	90					
CRLA-0922BZ	75389	CAFETERIA AND GIFT SHOP PARKING B	PUBLIC	AS	20,795	90	97	97	97	97	97	90					
CRLA-0923AZ	75390	VISITOR CENTER AND SINNOTT OVERLOOK PARKING A	PUBLIC	AS	3,359	30	30	90	73	97	97	73					
CRLA-0923BZ	75390	VISITOR CENTER AND SINNOTT OVERLOOK PARKING B	PUBLIC	AS	13,682	30	30	53	73	53	97	73					
CRLA-0923CZ	75390	VISITOR CENTER AND SINNOTT OVERLOOK PARKING C	PUBLIC	AS	18,106	30	30	53	73	30	73	73					
CRLA-0923DZ	75390	VISITOR CENTER AND SINNOTT OVERLOOK PARKING D	PUBLIC	AS	8,398	90	97	90	97	97	97	90					
CRLA-0923EZ	75390	VISITOR CENTER AND SINNOTT OVERLOOK PARKING E	PUBLIC	AS	5,947	90	97	90	97	97	97	90					

Data Collection Date: 06/2015

Federal Lands Highway
Road Inventory Program

Cycle 6 - Road Inventory Program
Parking Area Condition Summary Report
Crater Lake National Park

Condition (Rating / Index) Legend

- EXCELLENT (97)
- GOOD (90)
- FAIR (73)
- POOR* (0, 30, 53)
- NR = NOT RATED

Notes:

- A PCR of 0 indicates a paved parking area in very poor condition. Individual distresses could not be identified.
- Additional details on individual parking areas can be found in Section 6 of the Cycle 6 RIP Report.
- Refer to the RIP Report Appendix for an explanation of the rating system and rating methods.

Condition Rating Details for Parking Areas

							Asphalt Surface Distresses						Concrete Surface Distresses				
Route No.	FMSS No.	Route Name	User Access	Surf. Type	Area (Sq. Ft.)	Pavement Condition Rating (PCR)	Alligator Cracking	Longitudinal / Tranverse Cracking	Rutting / Distortions	Potholes / Patching	HMA Patching	Surface Raveling / Bleeding	Joint Faulting	Slab Cracking	Joint Distresses	Delamination / Pop-Outs	Potholes / Patching
CRLA-0924	75391	CRATER LAKE LODGE PARKING	PUBLIC	AS	33,826	73	73	90	90	97	97	73					
CRLA-0925	75392	CRATER LAKE LODGE RESIDENCE PARKING	NONPUBLIC	AS	8,203	73	97	90	90	90	97	73					
CRLA-0926	75493	CLEETWOOD (PUMICE POINT) PICNIC AREA	PUBLIC	AS	3,941	0											
CRLA-0927	75496	CLEETWOOD TRAIL PARKING	PUBLIC	AS	39,231	53	73	53	73	73	97	73					
CRLA-0928	75497	THE CLEETWOOD OVER FLOW PARKING	PUBLIC	AS	4,263	90	97	90	97	97	97	90					
CRLA-0929	75498	LOWER SKELL OVERLOOK	PUBLIC	AS	13,974	90	97	90	97	97	97	90					
CRLA-0930	75499	OVERLOOK PARKING	PUBLIC	AS	5,825	90	97	90	97	97	97	90					
CRLA-0931	75500	SKELL HEAD PICNIC AREA	PUBLIC	AS	3,564	0											
CRLA-0932	75501	SKELL HEAD OVERLOOK	PUBLIC	AS	28,883	53	97	53	97	97	97	90					
CRLA-0933	75502	WHITEBARK PICNIC AREA	PUBLIC	AS	5,875	0											
CRLA-0934	75503	MOUNT SCOTT TRAIL PARKING	PUBLIC	AS	10,636	53	90	53	97	73	97	73					
CRLA-0935	75504	CLOUDCAP OVERLOOK	PUBLIC	AS	3,955	90	97	97	97	97	97	90					
CRLA-0936	75506	PUMICE CASTLE	PUBLIC	AS	15,925	90	97	97	90	90	97	90					
CRLA-0937	75507	CASTLE ROCK OVERLOOK	PUBLIC	AS	12,731	53	90	90	90	53	97	90					
CRLA-0938	75508	SENTINEL POINT OVERLOOK	PUBLIC	AS	13,386	53	90	90	73	53	97	73					
CRLA-0939	75509	PHANTOM SHIP OVERLOOK	PUBLIC	AS	23,095	73	97	90	73	73	97	73					
CRLA-0940	75510	THE PINNACLES OVERLOOK	PUBLIC	AS	14,227	73	97	97	90	90	97	73					
CRLA-0941	75511	SUN NOTCH PARKING	PUBLIC	AS	10,951	90	97	90	97	90	97	90					
CRLA-0942	75512	VIDAE FALLS PARKING	PUBLIC	AS	4,278	90	97	90	97	90	97	90					
CRLA-0943	75513	CRATER PEAK TRAIL PARKING	PUBLIC	AS	10,134	90	97	97	97	97	97	90					
CRLA-0944	75514	CASTLE CREST PARKING	PUBLIC	AS	1,489	53	97	97	97	53	97	73					
CRLA-0945	75515	MOUNT SCOTT OVERLOOK	PUBLIC	AS	7,427	73	97	97	97	97	97	73					
CRLA-0946	75516	ADMINISTRATION PARKING	NONPUBLIC	AS	10,459	30	30	90	90	90	97	90					
CRLA-0947AZ	99597	MAZAMA VILLAGE STORE PARKING A	PUBLIC	AS	42,165	90	97	90	97	97	97	97					
CRLA-0947BZ	99597	MAZAMA VILLAGE STORE PARKING B	PUBLIC	AS	4,138	90	97	97	97	97	97	90					
CRLA-0947CZ	99597	MAZAMA VILLAGE STORE PARKING C	PUBLIC	AS	3,600	90	97	97	97	97	97	90					

Route 0926, 0931 and 00933 were given a Pavement Condition Rating (PCR) of 0 because it is in very poor condition. Individual distress indices could not be determined because of the excessive distress quantity and missing sections of pavement.

Data Collection Date: 06/2015

Federal Lands Highway
Road Inventory Program

Cycle 6 - Road Inventory Program
Parking Area Condition Summary Report

Crater Lake National Park

Condition (Rating / Index) Legend

- EXCELLENT (97)
- GOOD (90)
- FAIR (73)
- POOR* (0, 30, 53)
- NR = NOT RATED

Notes:

- A PCR of 0 indicates a paved parking area in very poor condition. Individual distresses could not be identified.
- Additional details on individual parking areas can be found in Section 6 of the Cycle 6 RIP Report.
- Refer to the RIP Report Appendix for an explanation of the rating system and rating methods.

Condition Rating Details for Parking Areas

Route No.	FMSS No.	Route Name	User Access	Surf. Type	Area (Sq. Ft.)	Pavement Condition Rating (PCR)	Asphalt Surface Distresses: Alligator Cracking	Asphalt Surface Distresses: Longitudinal / Tranverse Cracking	Asphalt Surface Distresses: Rutting / Distortions	Asphalt Surface Distresses: Potholes / Patching	Asphalt Surface Distresses: HMA Patching	Asphalt Surface Distresses: Surface Raveling / Bleeding	Concrete Surface Distresses: Joint Faulting	Concrete Surface Distresses: Slab Cracking	Concrete Surface Distresses: Joint Distresses	Concrete Surface Distresses: Delamination / Pop-Outs	Concrete Surface Distresses: Potholes / Patching
CRLA-0947DZ	99597	ANNIE CREEK RESTAURANT PARKING	PUBLIC	AS	15,899	90	97	90	97	97	97	97					
CRLA-0947EZ	99597	MAZAMA DUMP STATION	PUBLIC	AS	9,273	90	97	97	97	97	97	90					
CRLA-0949	99598	NORTH ENTRANCE RESTROOM PARKING	PUBLIC	AS	4,730	90	97	97	97	97	97	90					
CRLA-0951	99603	WEST ENTRANCE PARKING AREA	PUBLIC	AS	3,650	90	97	97	97	97	97	90					
CRLA-0955AZ	N/A	MOTOR LODGE PARKING A	PUBLIC	AS	7,300	90	97	90	97	97	97	90					
CRLA-0955BZ	N/A	MOTOR LODGE PARKING B	PUBLIC	AS	3,771	90	97	90	97	97	97	90					
CRLA-0955CZ	N/A	MOTOR LODGE PARKING C	PUBLIC	AS	2,499	90	97	90	97	97	97	90					
CRLA-0956	228419	PLAIKNI TRAIL PARKING	PUBLIC	AS	6,182	97	97	97	97	97	97	97					

Data Collection Date: 06/2015

Section 4
Park Route Location Maps

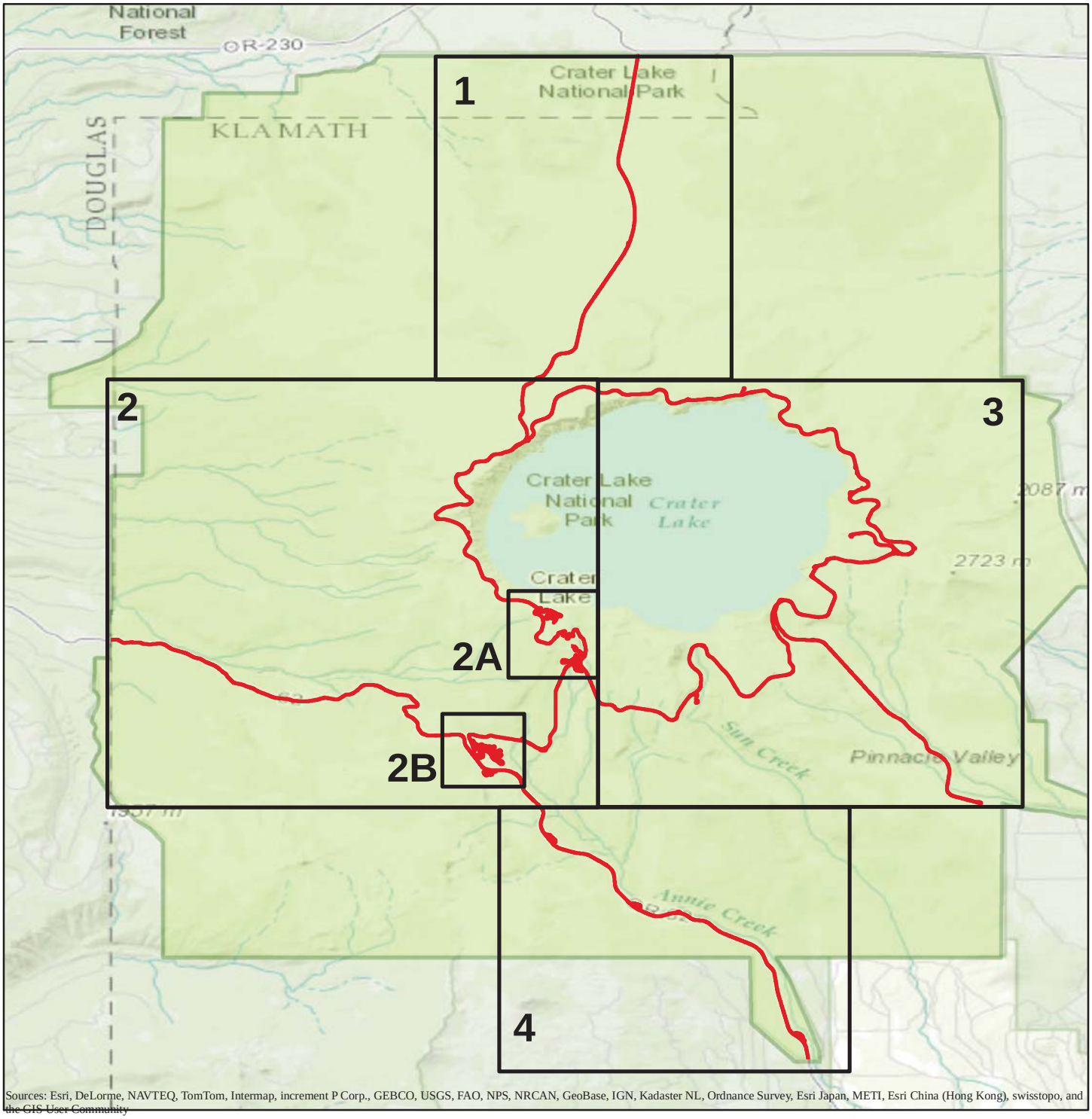
Crater Lake National Park

Federal Lands Highway
Road Inventory Program

Crater Lake National Park

ROUTE LOCATION MAP

Key Map



NPS Collected Routes

Non-NPS Collected Routes

Miles

0 5 10

N

Crater Lake National Park

ROUTE LOCATION MAP

Area Map 1

Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Note: Unique colors are used to differentiate roads

Non-NPS Collected Routes

Miles

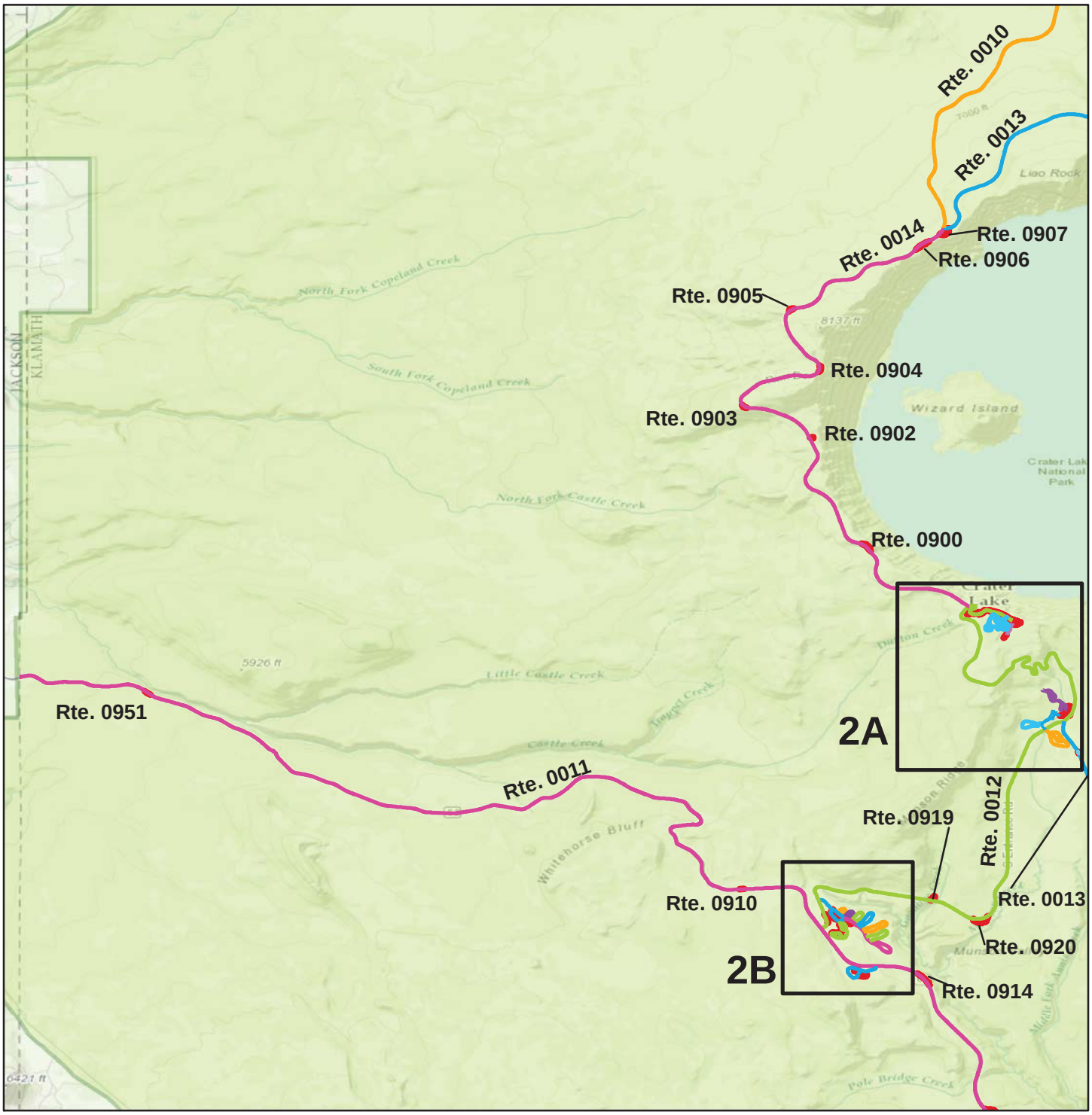
0 2.5 5

N

Crater Lake National Park

ROUTE LOCATION MAP

Area Map 2



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Note: Unique colors are used to differentiate roads

Non-NPS Collected Routes

Miles

0 2.5 5

N

Crater Lake National Park

ROUTE LOCATION MAP

Area Map 2A

Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Note: Unique colors are used to differentiate roads

Non-NPS Collected Routes

Miles

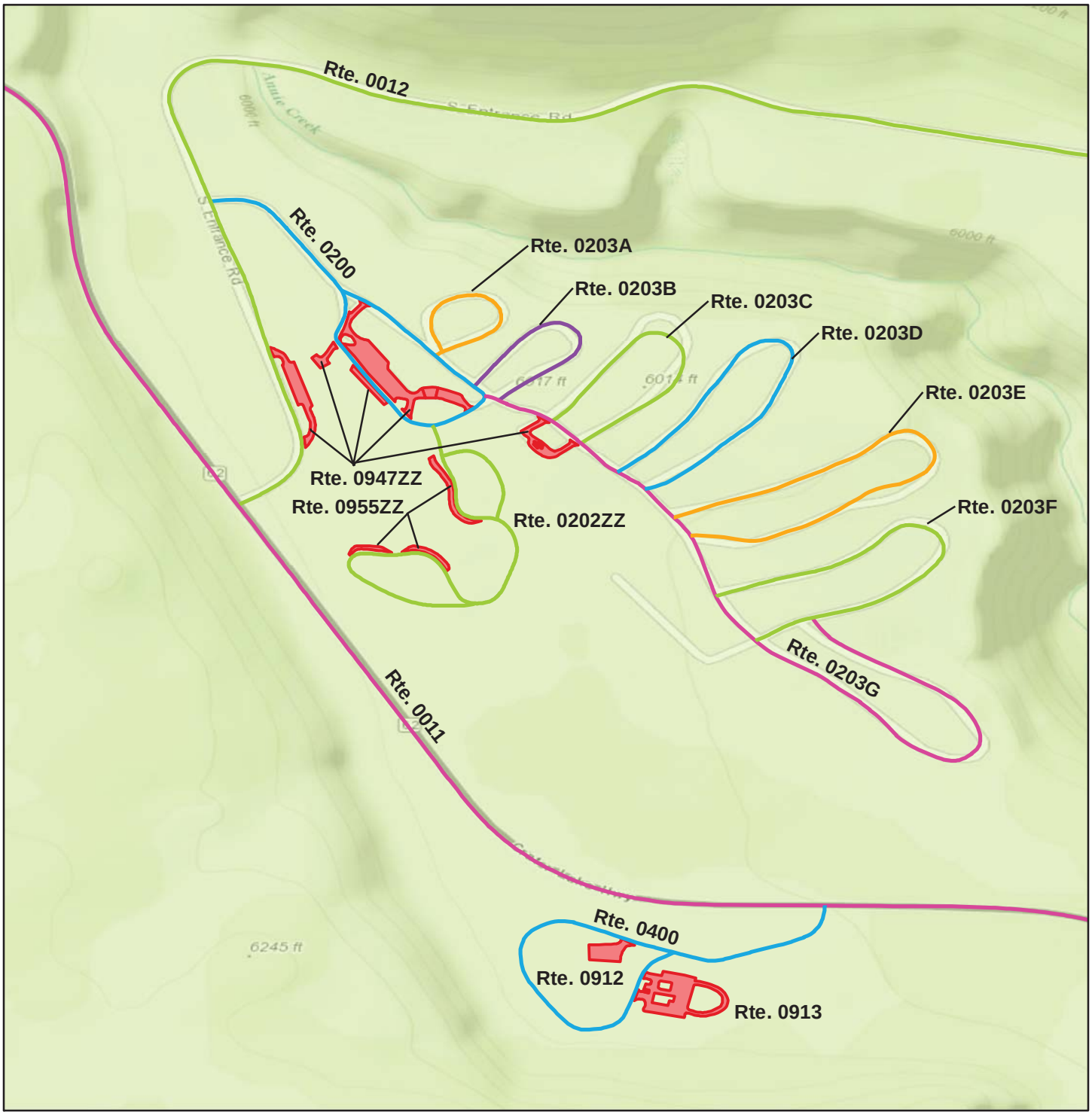
0 0.5 1

N

Crater Lake National Park

ROUTE LOCATION MAP

Area Map 2B



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Note: Unique colors are used to differentiate roads

Non-NPS Collected Routes

Miles

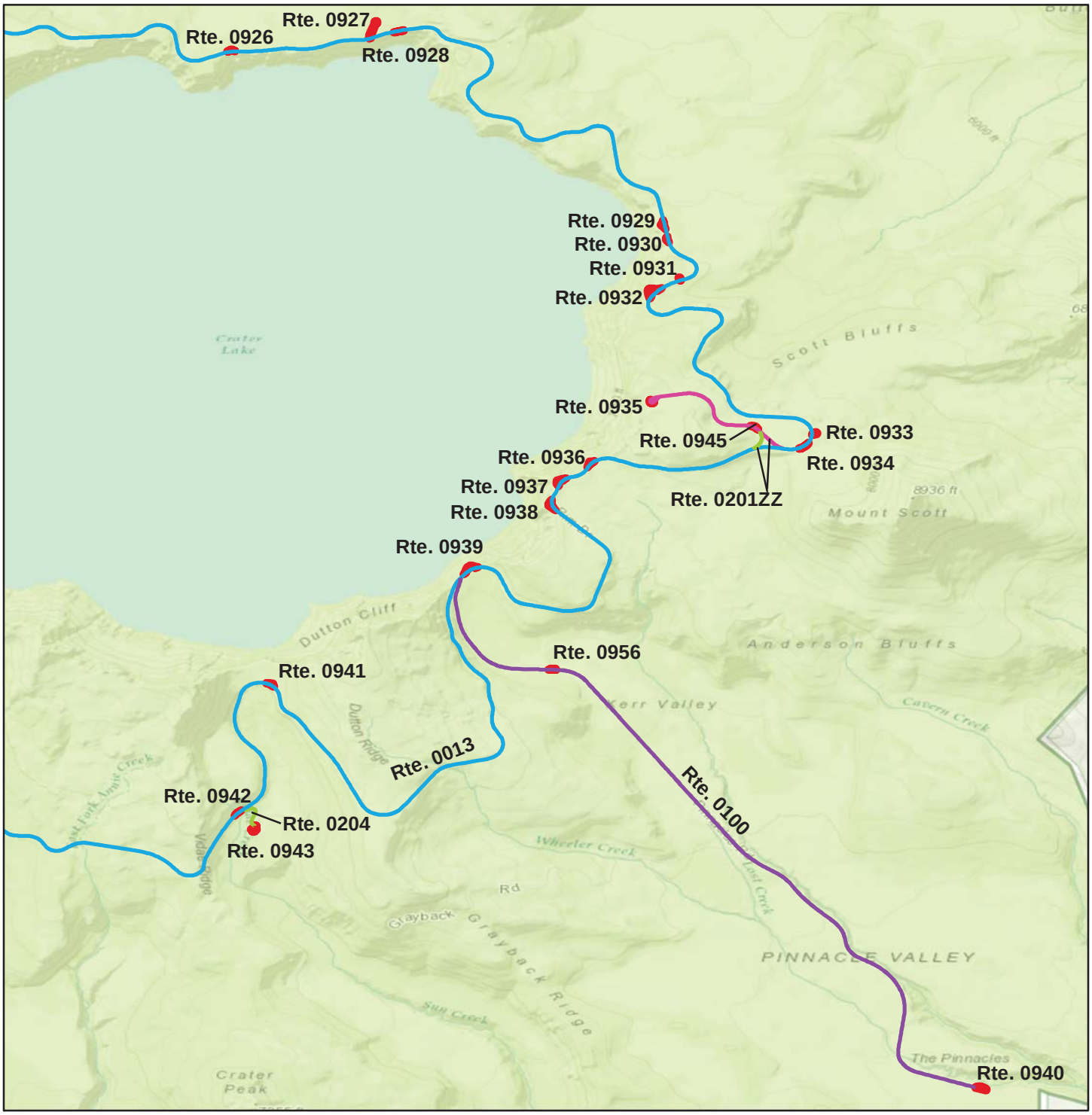
0 0.25 0.5

N

Crater Lake National Park

ROUTE LOCATION MAP

Area Map 3



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Note: Unique colors are used to differentiate roads

Non-NPS Collected Routes

Miles

0 2.5 5

N

Crater Lake National Park

ROUTE LOCATION MAP

Area Map 4

Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Note: Unique colors are used to differentiate roads

Non-NPS Collected Routes

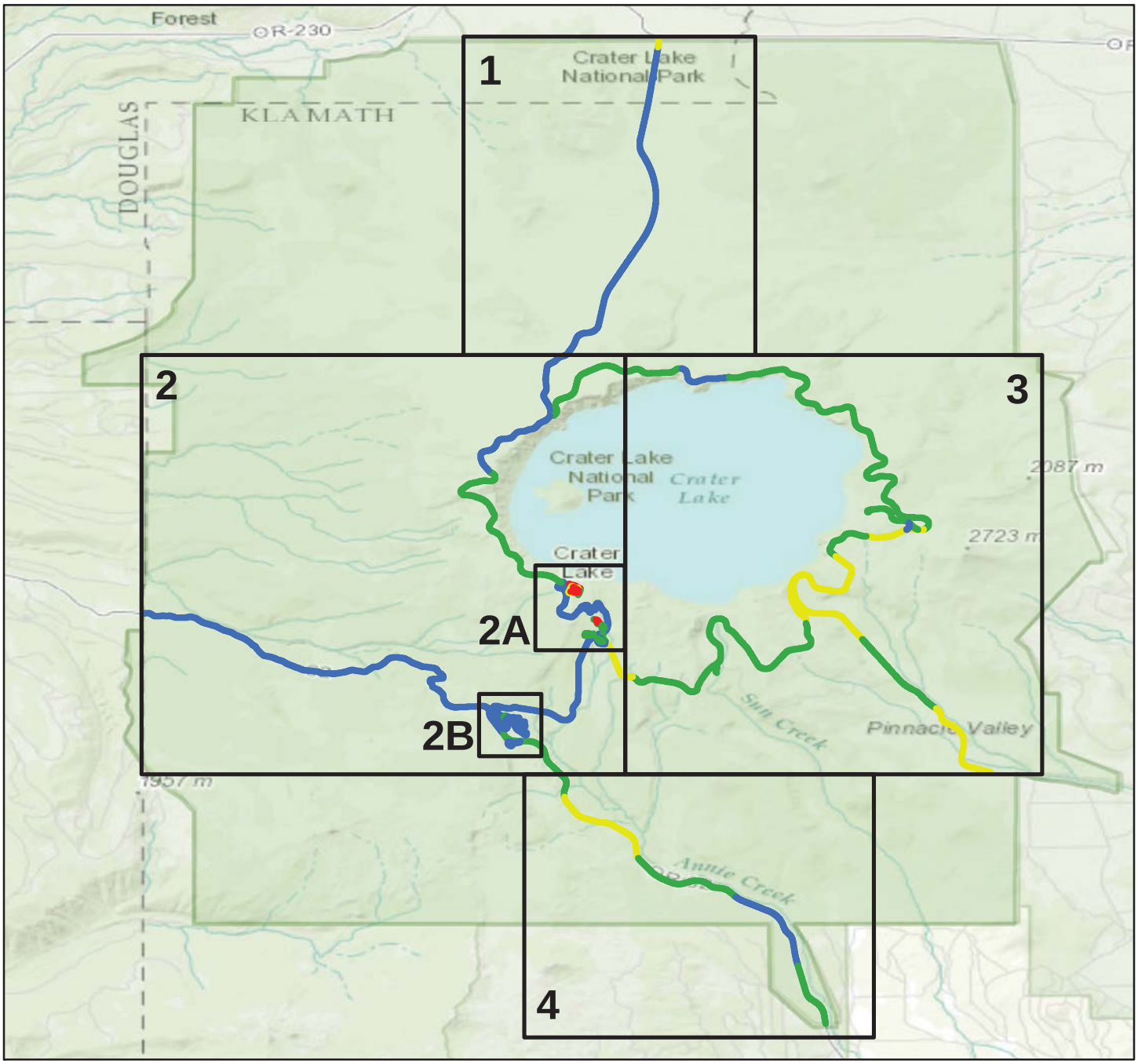
Miles

0 2.5 5

N

Crater Lake National Park

ROUTE CONDITION MAP
PCR - MILE BY MILE
Key Map



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

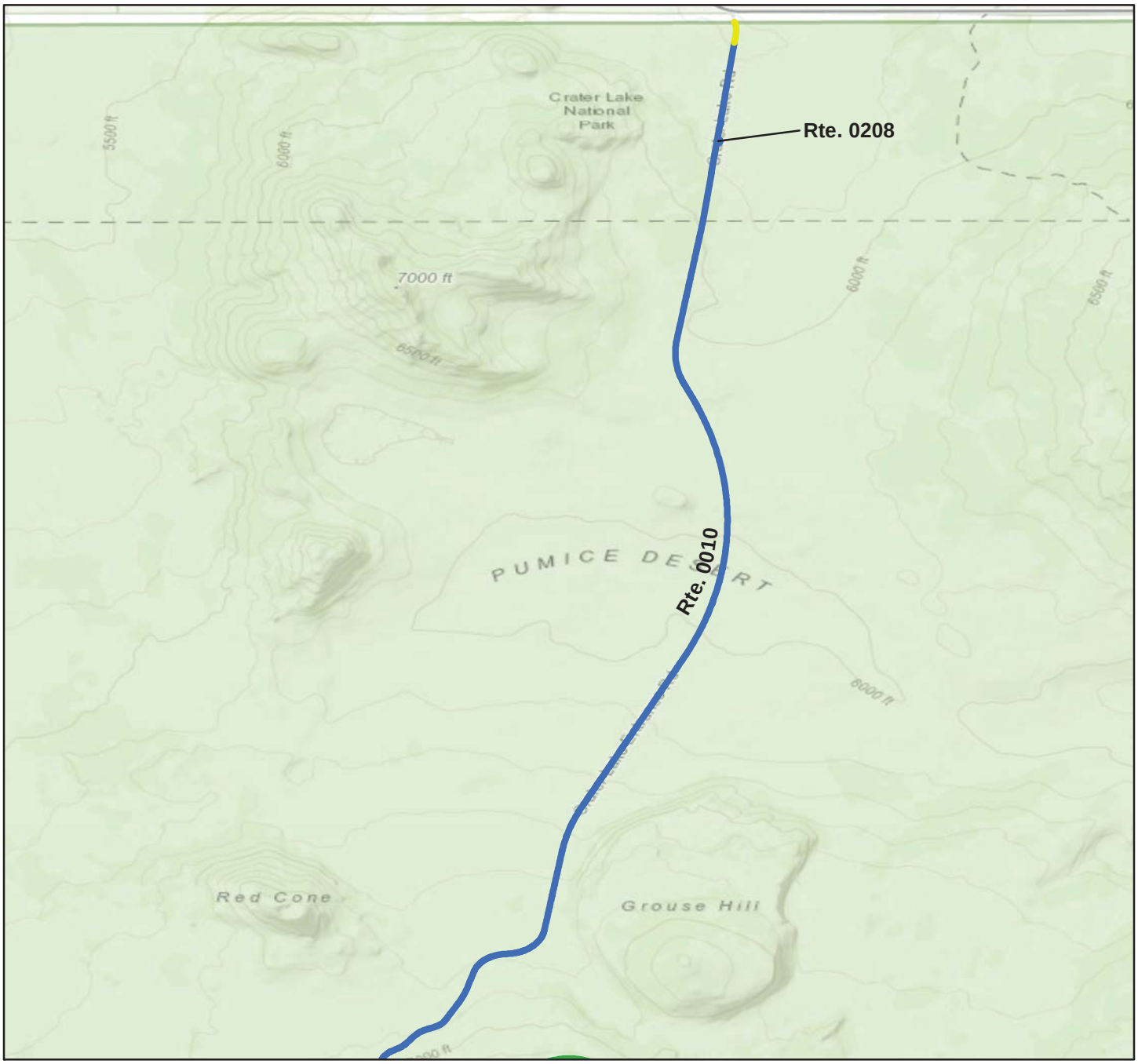
See Appendix for definitions and formulas
Only Data Collection Vehicle and Manually Rated Roads are displayed

Miles
0 5 10

N

Crater Lake National Park

ROUTE CONDITION MAP
PCR - MILE BY MILE
Area Map 1



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

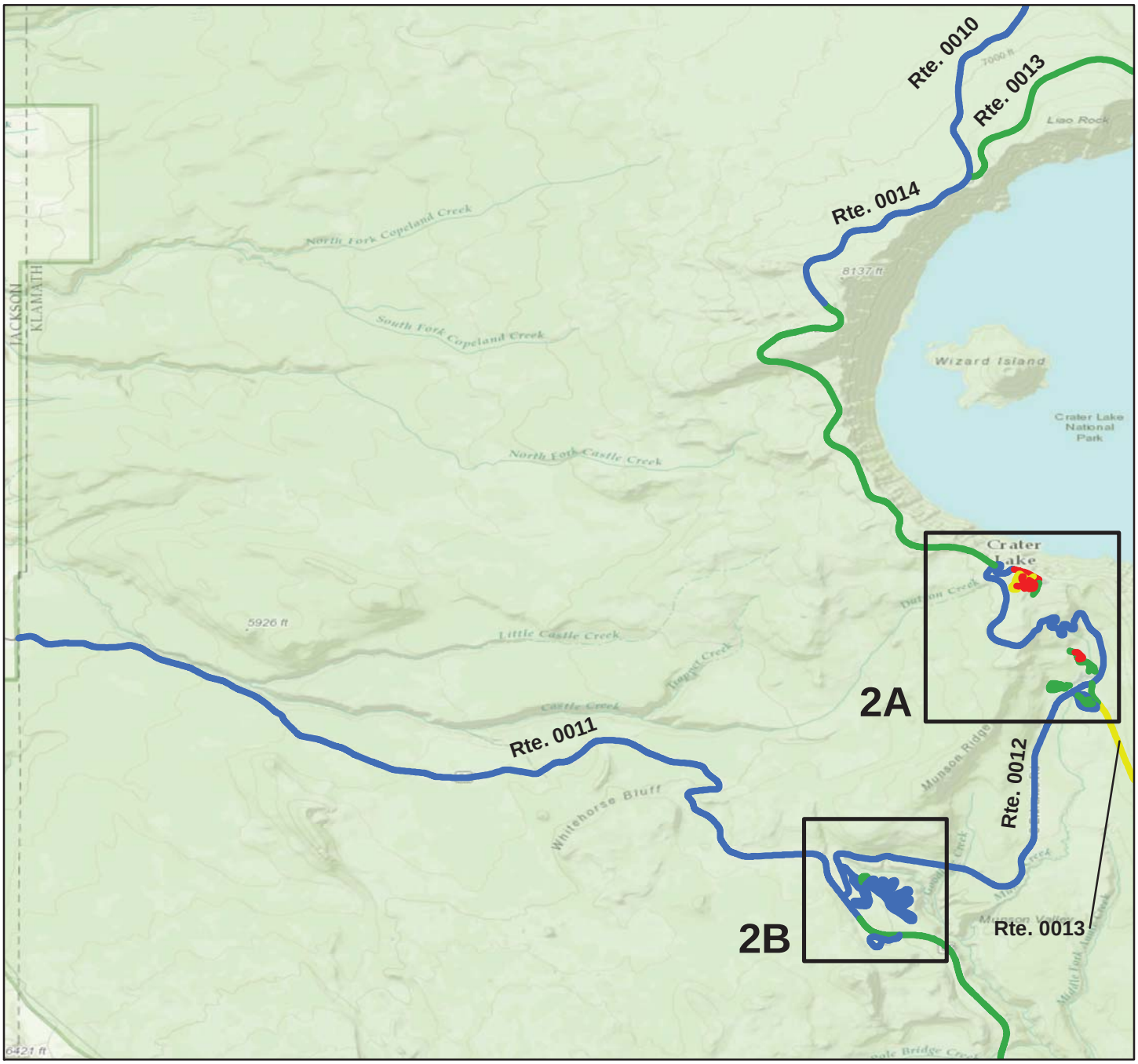
See Appendix for definitions and formulas
Only Data Collection Vehicle and Manually Rated Roads are displayed

Miles
0 2.5 5

N

Crater Lake National Park

ROUTE CONDITION MAP
PCR - MILE BY MILE
Area Map 2



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

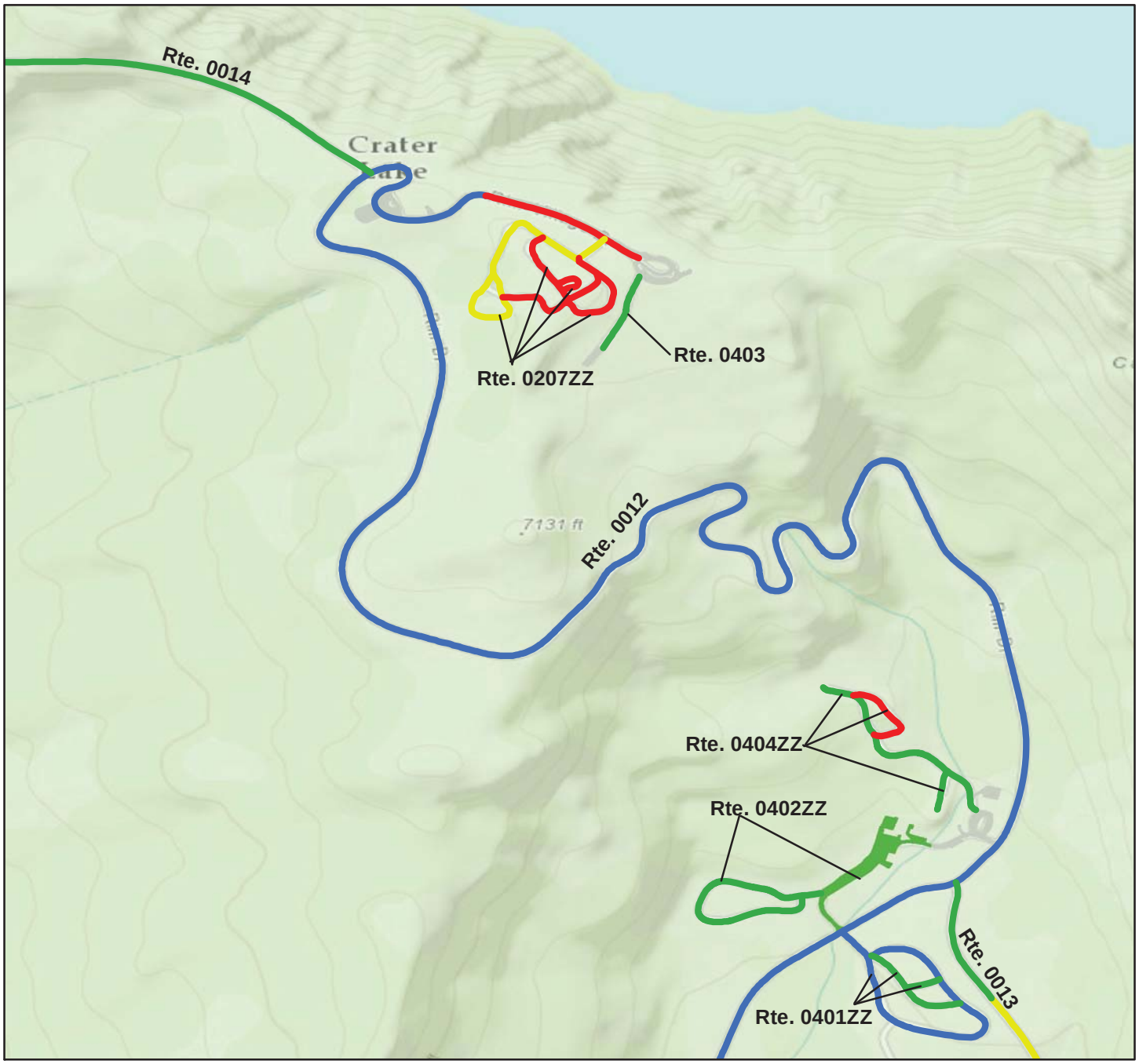
See Appendix for definitions and formulas
Only Data Collection Vehicle and Manually Rated Roads are displayed

Miles
0 2.5 5

N

Crater Lake National Park

ROUTE CONDITION MAP
PCR - MILE BY MILE
Area Map 2A



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas
Only Data Collection Vehicle and Manually Rated Roads are displayed

Miles
0 0.5 1

N

Crater Lake National Park

ROUTE CONDITION MAP
PCR - MILE BY MILE
Area Map 2B

Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

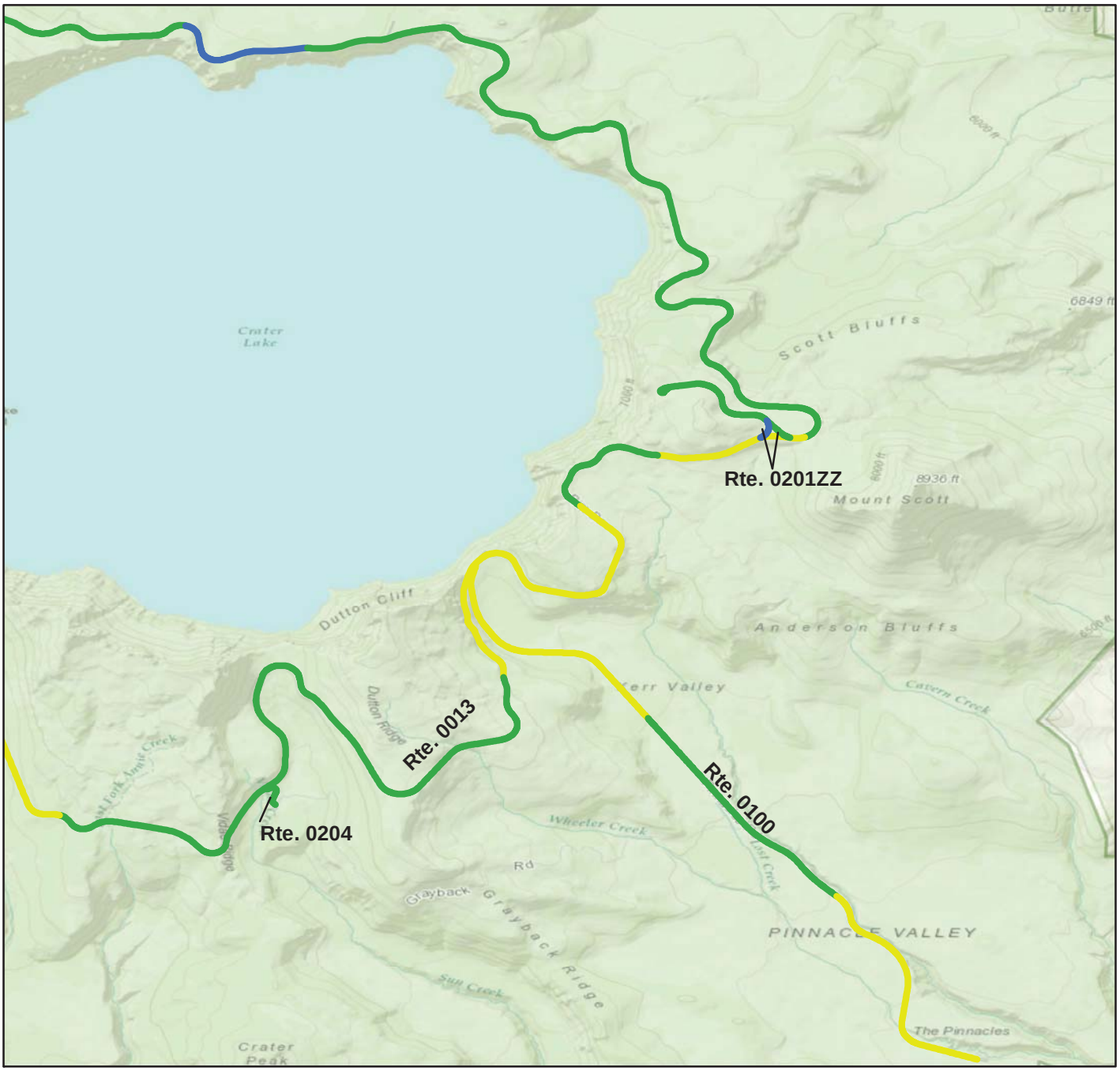
See Appendix for definitions and formulas
Only Data Collection Vehicle and Manually Rated Roads are displayed

Miles
0 0.5 1

N

Crater Lake National Park

ROUTE CONDITION MAP
PCR - MILE BY MILE
Area Map 3



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

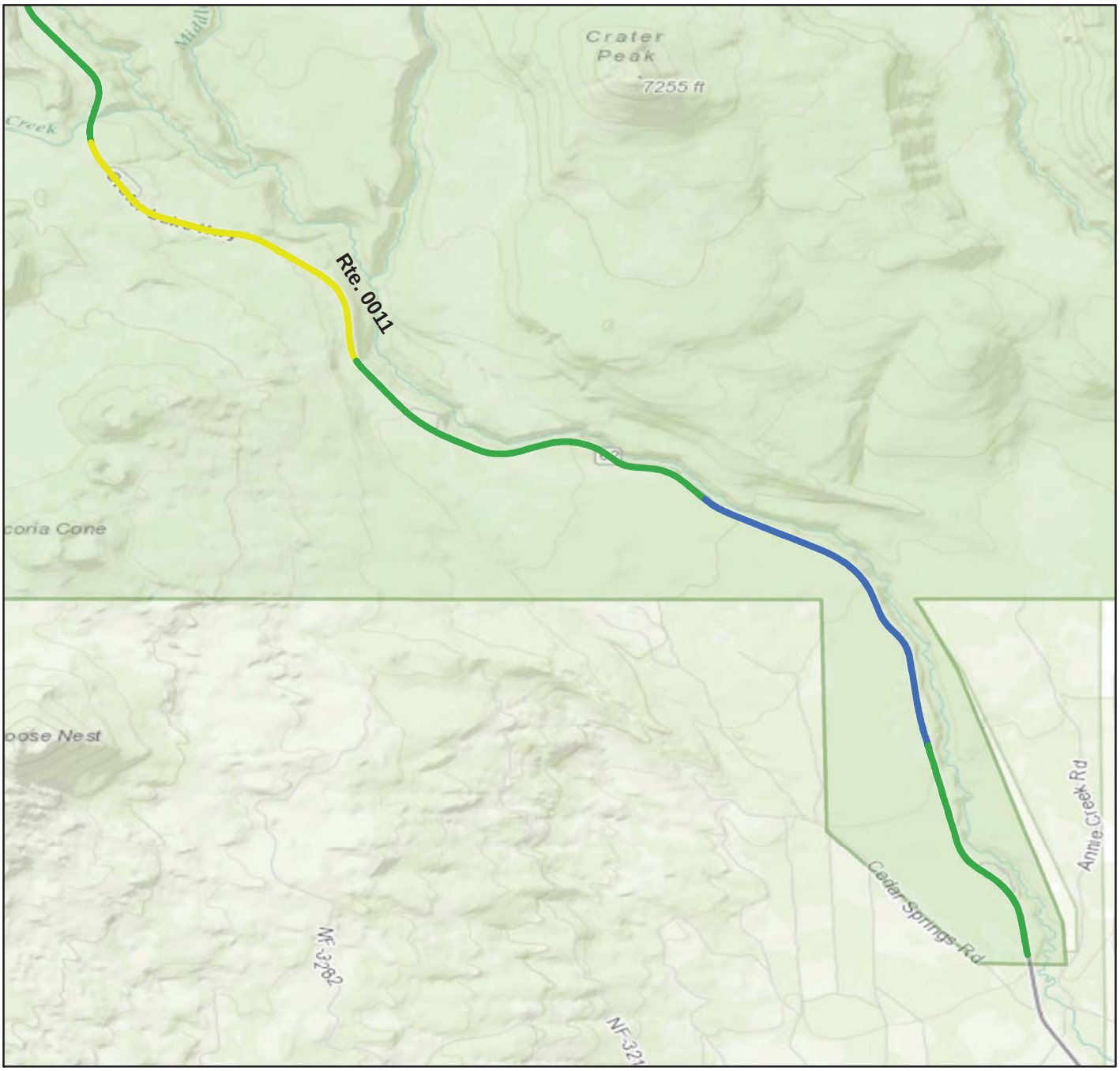
See Appendix for definitions and formulas
Only Data Collection Vehicle and Manually Rated Roads are displayed

Miles
0 2.5 5

N

Crater Lake National Park

ROUTE CONDITION MAP
PCR - MILE BY MILE
Area Map 4



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas
Only Data Collection Vehicle and Manually Rated Roads are displayed

Miles
0 2.5 5

N

Section 5
Paved Road Condition Rating Sheets

Crater Lake National Park

Federal Lands Highway
Road Inventory Program

Crater Lake National Park

ROUTE 0010: NORTH ENTRANCE ROAD

Data Collection Vehicle (DCV) Rating

Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

Inspection Date: 7/31/2015	**Beginning Section MP**	0	1	2	3	4
Paved Length (Miles): 9.15	**Section Length (MI)**	1	1	1	1	1
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	99	100	100	99	99	98
Surface Condition Rating (SCR)	98	100	100	99	98	97
Roughness Condition Index (RCI)	100	100	100	100	100	100
Distress Index Values						
Structural Crack Index	100	100	100	100	100	100
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	100	100	100	100	100	100
Transverse Cracking Index	100	100	100	100	100	100
Patching Index	100	100	100	100	100	100
Rutting Index	98	100	100	99	98	97
International Roughness Index (IRI)	89	84	101	103	86	81
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	26.3	25.6	25.1	24.7	24.5	25.1
Lane Width (ft)	10.6	10.5	10.8	10.6	10.5	10.6

Crater Lake National Park

ROUTE 0010: NORTH ENTRANCE ROAD

Data Collection Vehicle (DCV) Rating

Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60) | **Fair (61- 84)** | **Good (85 - 94)** | **Excellent (95 - 100)** | **Not Rated**

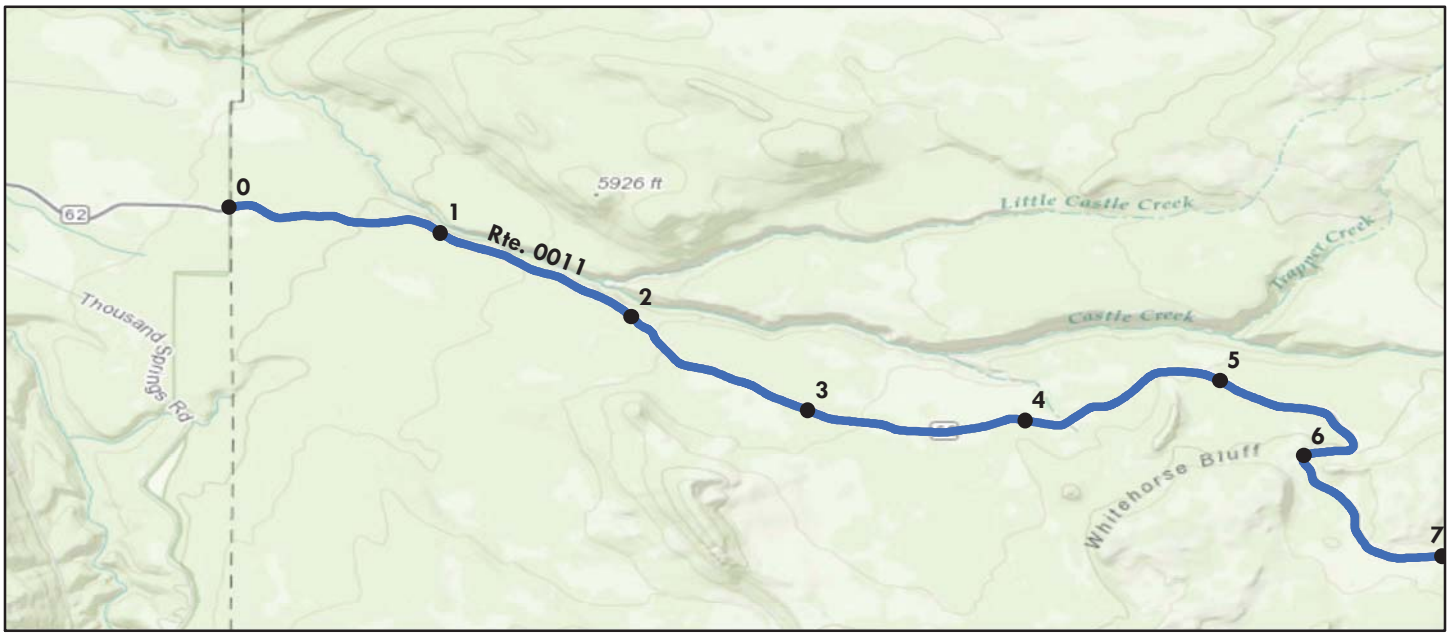
See Appendix for definitions and formulas

Inspection Date: 7/31/2015	**Beginning Section MP**	5	6	7	8	9
Paved Length (Miles): 9.15	**Section Length (MI)**	1	1	1	1	0.15
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	99	98	99	99	96	79
Surface Condition Rating (SCR)	98	96	99	98	93	82
Roughness Condition Index (RCI)	100	100	100	100	100	74
Distress Index Values						
Structural Crack Index	100	100	100	100	100	97
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	100	100	100	100	100	97
Transverse Cracking Index	100	99	100	100	100	82
Patching Index	100	100	100	100	100	100
Rutting Index	98	96	99	98	93	95
International Roughness Index (IRI)	89	83	83	91	77	187
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	26.3	24.8	24.5	26.9	35.3	31.8
Lane Width (ft)	10.6	10.5	10.4	10.2	11.8	10.8

Crater Lake National Park

ROUTE 0011: CRATER LAKE HIGHWAY

Data Collection Vehicle (DCV) Rating



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

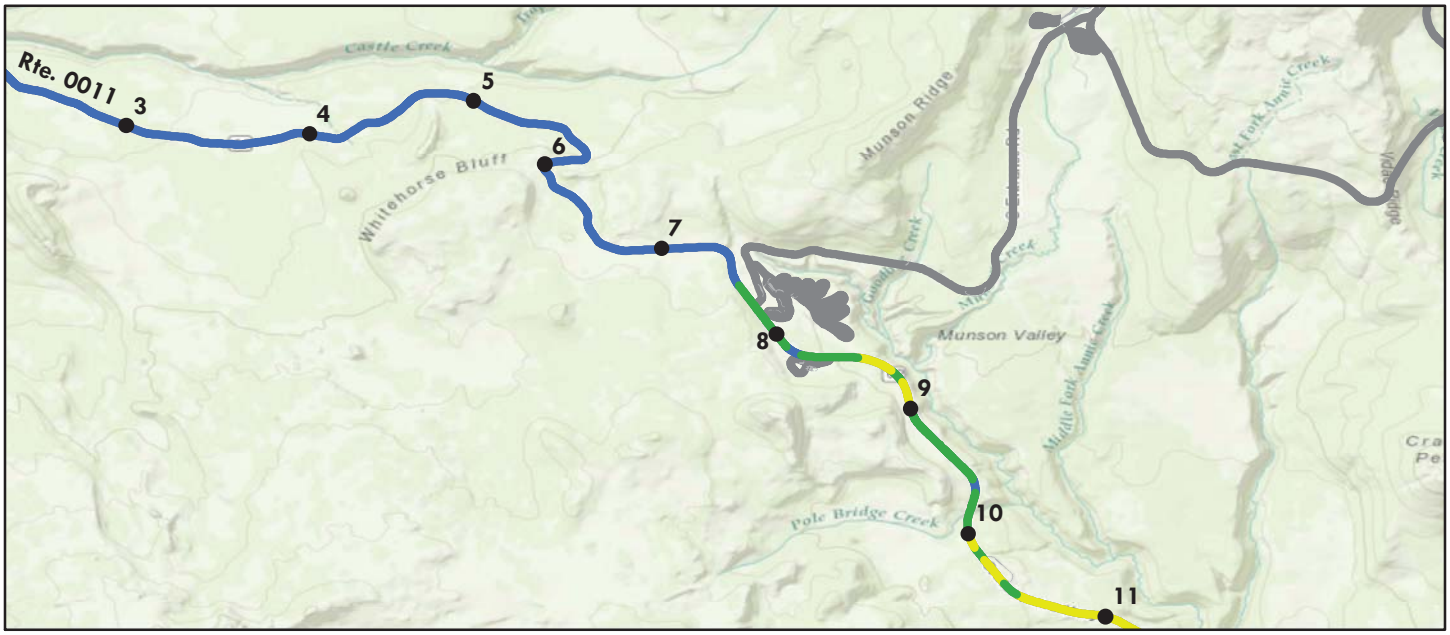
See Appendix for definitions and formulas

Inspection Date: 7/31/2015	**Beginning Section MP**	0	1	2	3	4
Paved Length (Miles): 17.43	**Section Length (MI)**	1	1	1	1	1
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	95	100	98	98	98	99
Surface Condition Rating (SCR)	94	100	97	97	96	98
Roughness Condition Index (RCI)	97	100	100	100	100	100
Distress Index Values						
Structural Crack Index	100	100	100	100	100	100
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	100	100	100	100	100	100
Transverse Cracking Index	98	100	100	100	100	100
Patching Index	100	100	100	100	100	100
Rutting Index	94	100	97	97	96	98
International Roughness Index (IRI)	123	80	86	84	86	85
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	27	23.5	26.5	27.2	27.3	27.6
Lane Width (ft)	10.4	9.6	9.9	10.1	10.4	10.2

Crater Lake National Park

ROUTE 0011: CRATER LAKE HIGHWAY

Data Collection Vehicle (DCV) Rating



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60) | **Fair (61- 84)** | **Good (85 - 94)** | **Excellent (95 - 100)** | **Not Rated**

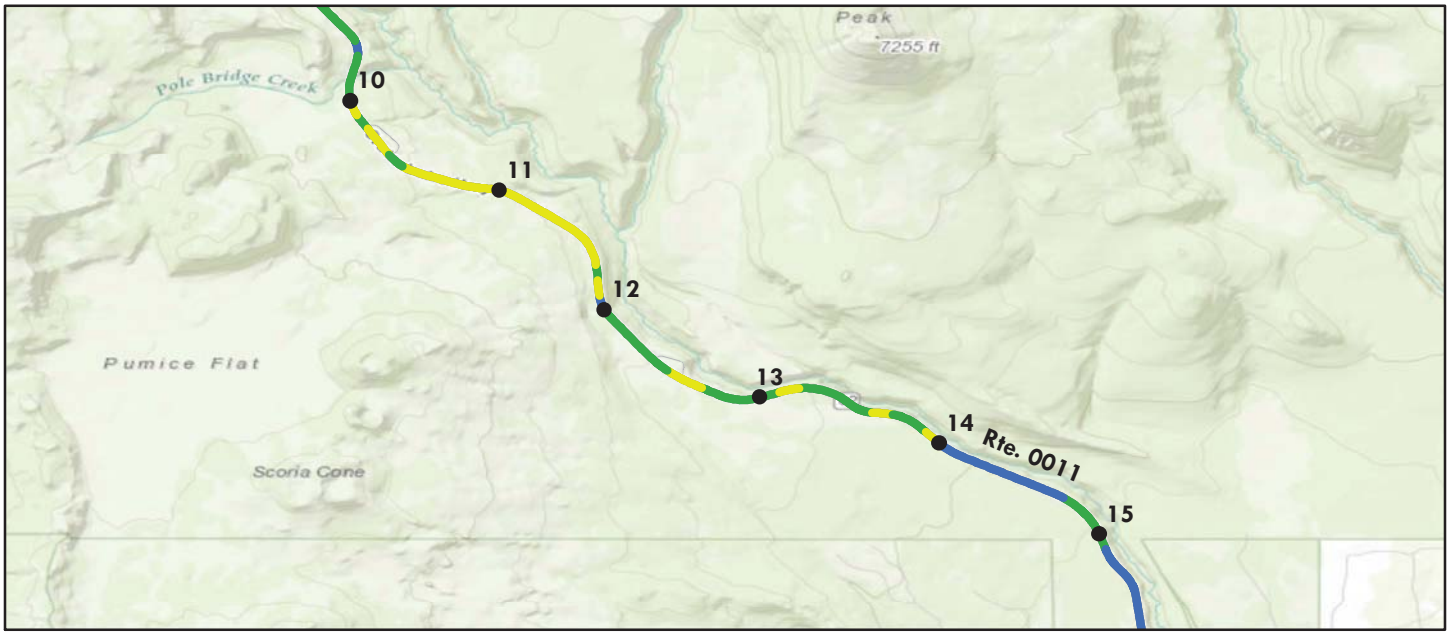
See Appendix for definitions and formulas

Inspection Date: 7/31/2015	**Beginning Section MP**	5	6	7	8	9
Paved Length (Miles): 17.43	**Section Length (MI)**	1	1	1	1	1
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	95	99	99	97	86	90
Surface Condition Rating (SCR)	94	98	98	97	91	93
Roughness Condition Index (RCI)	97	100	100	98	79	86
Distress Index Values						
Structural Crack Index	100	100	100	100	99	99
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	100	100	100	100	99	99
Transverse Cracking Index	98	100	100	100	97	95
Patching Index	100	100	100	100	100	100
Rutting Index	94	98	98	97	91	93
International Roughness Index (IRI)	123	79	88	121	171	150
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	27	27	27.1	31.8	28	27
Lane Width (ft)	10.4	9.9	10.1	10.5	11.1	10.9

Crater Lake National Park

ROUTE 0011: CRATER LAKE HIGHWAY

Data Collection Vehicle (DCV) Rating



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

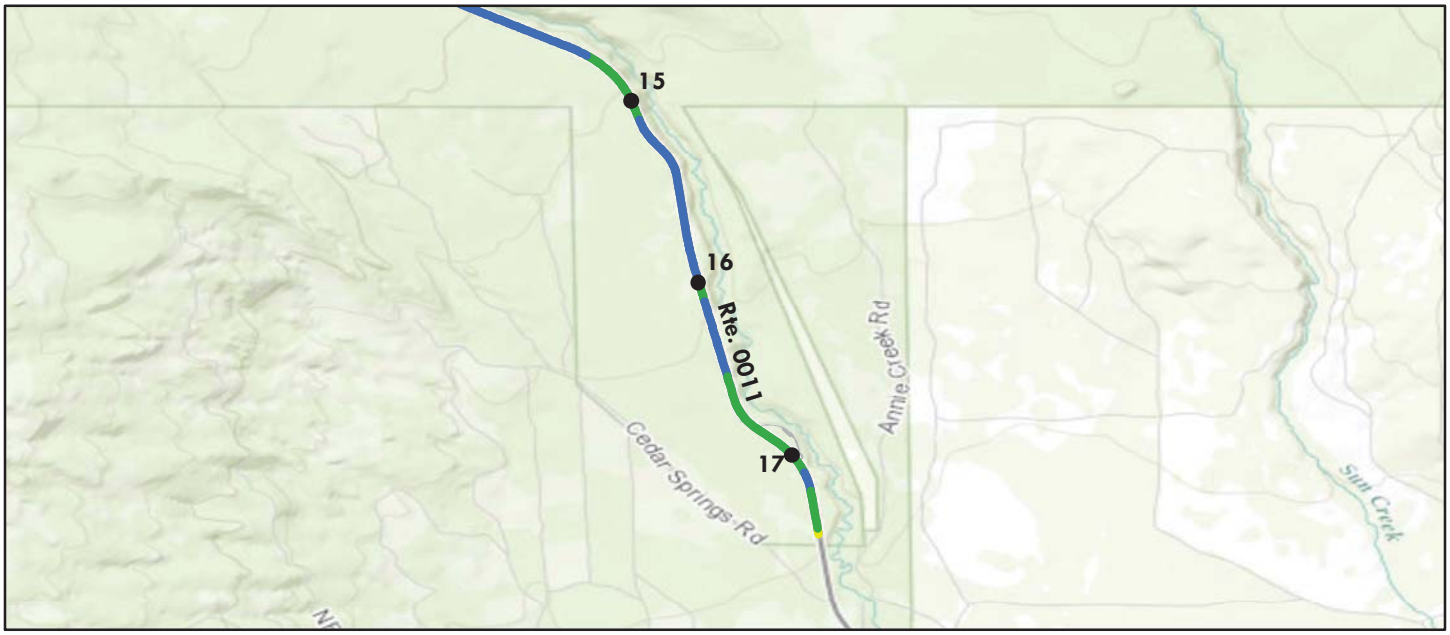
See Appendix for definitions and formulas

Inspection Date: 7/31/2015	**Beginning Section MP**	10	11	12	13	14
Paved Length (Miles): 17.43	**Section Length (MI)**	1	1	1	1	1
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	95	80	82	88	87	97
Surface Condition Rating (SCR)	94	86	87	90	89	95
Roughness Condition Index (RCI)	97	72	74	84	83	99
Distress Index Values						
Structural Crack Index	100	100	100	100	99	100
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	100	100	100	100	99	100
Transverse Cracking Index	98	93	95	94	98	100
Patching Index	100	100	100	100	100	100
Rutting Index	94	86	87	90	89	95
International Roughness Index (IRI)	123	196	187	158	159	117
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	27	26.9	26.8	26.7	26.6	26.1
Lane Width (ft)	10.4	10.2	10.9	10.7	10.6	11

Crater Lake National Park

ROUTE 0011: CRATER LAKE HIGHWAY

Data Collection Vehicle (DCV) Rating



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

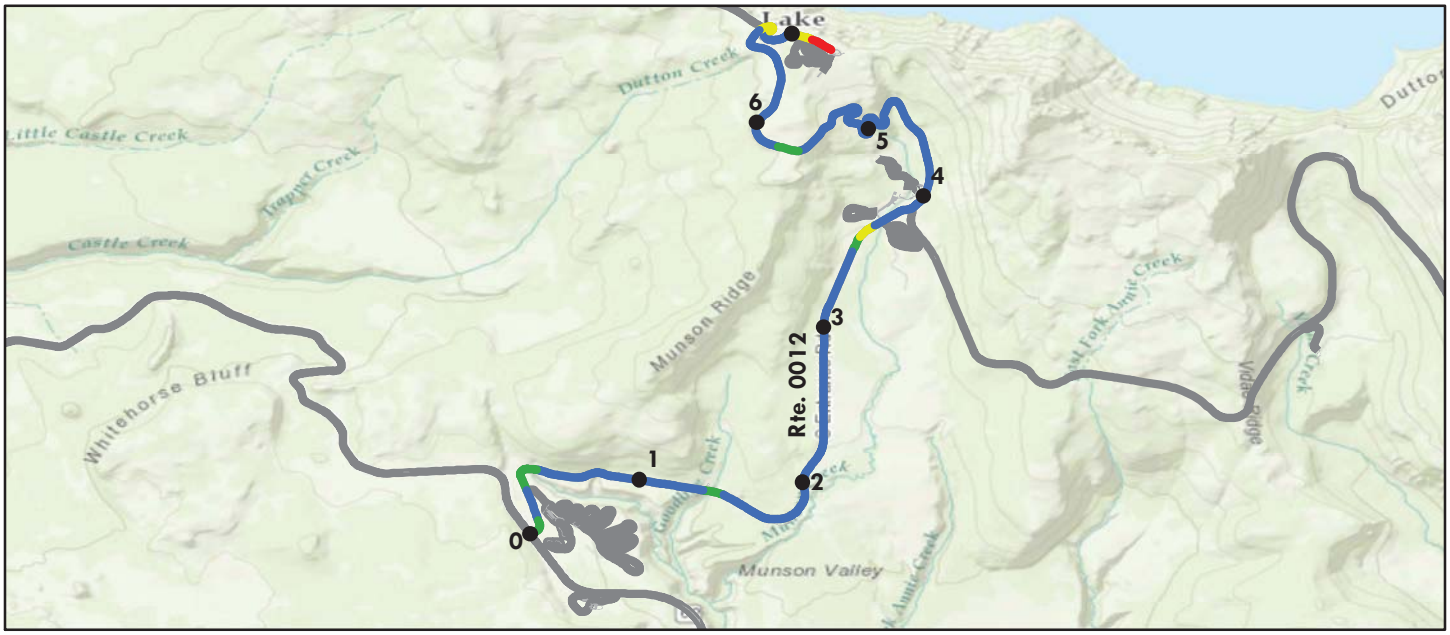
See Appendix for definitions and formulas

Inspection Date: 7/31/2015	**Beginning Section MP**	15	16	17		
Paved Length (Miles): 17.43	**Section Length (MI)**	1	1	0.43		
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	95	98	94	92		
Surface Condition Rating (SCR)	94	96	92	92		
Roughness Condition Index (RCI)	97	100	96	91		
Distress Index Values						
Structural Crack Index	100	100	100	100		
Alligator Crack Index	100	100	100	100		
Longitudinal Crack Index	100	100	100	100		
Transverse Cracking Index	98	100	100	100		
Patching Index	100	100	100	100		
Rutting Index	94	96	92	92		
International Roughness Index (IRI)	123	109	124	138		
Lane & Width Information						
Number of Lanes	2	2	2	2		
Paved Width (ft)	27	26.7	26.9	27.1		
Lane Width (ft)	10.4	10.9	10.5	10.1		

Crater Lake National Park

ROUTE 0012: MUNSON VALLEY ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

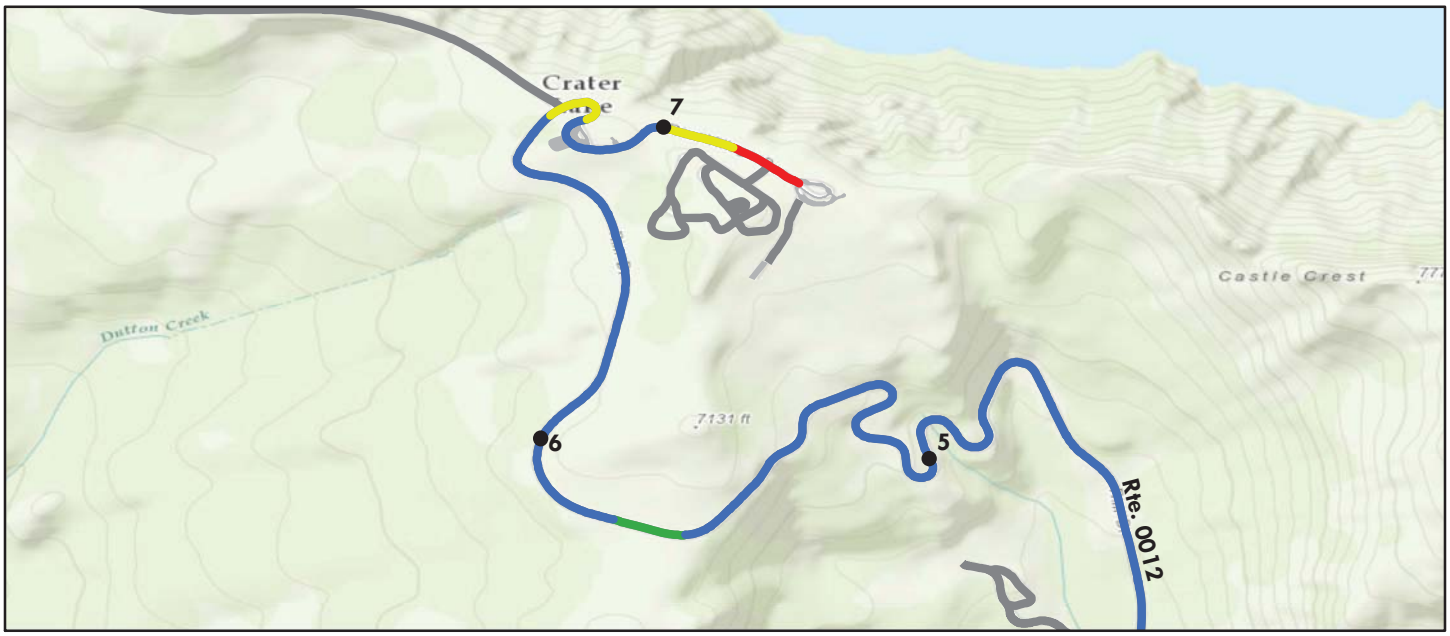
See Appendix for definitions and formulas

Inspection Date: 7/31/2015	**Beginning Section MP**	0	1	2	3	4
Paved Length (Miles): 7.21	**Section Length (MI)**	1	1	1	1	1
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	97	96	99	99	97	99
Surface Condition Rating (SCR)	98	98	99	98	97	99
Roughness Condition Index (RCI)	96	94	99	100	96	100
Distress Index Values						
Structural Crack Index	99	100	100	100	100	100
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	99	100	100	100	100	100
Transverse Cracking Index	99	100	100	100	100	100
Patching Index	100	100	100	100	100	100
Rutting Index	98	98	99	98	97	99
International Roughness Index (IRI)	124	130	117	102	126	115
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	27.5	31.7	27.9	26.1	26.5	26.5
Lane Width (ft)	10.9	13	10.7	10.4	10.4	10.4

Crater Lake National Park

ROUTE 0012: MUNSON VALLEY ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

Inspection Date:	7/31/2015	**Beginning Section MP**	5	6	7		
Paved Length (Miles):	7.21	**Section Length (MI)**	1	1	0.21		
Surface Type:	ASPHALT	**Route Summary**					
Roadway Condition Information							
Pavement Condition Rating (PCR)		97	98	96	56		
Surface Condition Rating (SCR)		98	98	98	56		
Roughness Condition Index (RCI)		96	98	92	N/A		
Distress Index Values							
Structural Crack Index		99	100	100	56		
Alligator Crack Index		100	100	100	98		
Longitudinal Crack Index		99	100	100	58		
Transverse Cracking Index		99	99	100	71		
Patching Index		100	100	100	92		
Rutting Index		98	98	98	83		
International Roughness Index (IRI)		124	121	136	N/A		
Lane & Width Information							
Number of Lanes		2	2	2	2		
Paved Width (ft)		27.5	26.8	27.6	28.1		
Lane Width (ft)		10.9	10.4	11.1	11.2		

Crater Lake National Park

ROUTE 0013: EAST RIM DRIVE

Data Collection Vehicle (DCV) Rating

Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60) | **Fair (61- 84)** | **Good (85 - 94)** | **Excellent (95 - 100)** | **Not Rated**

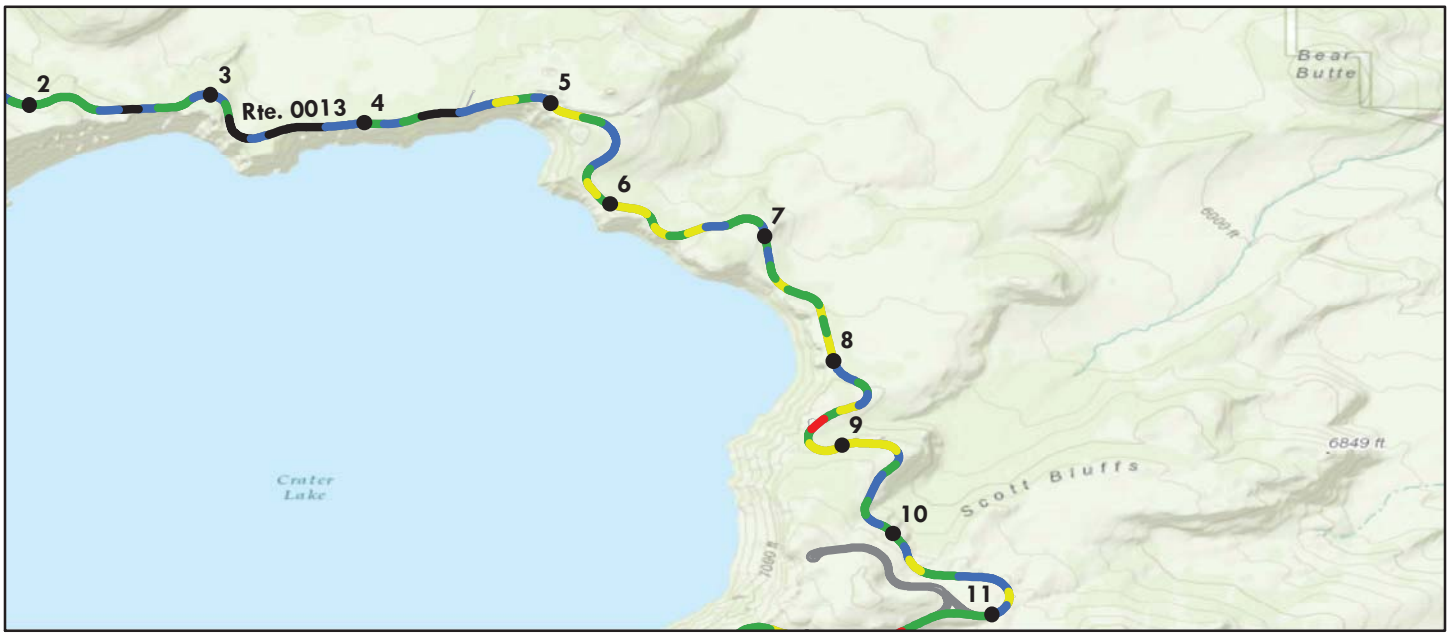
See Appendix for definitions and formulas

Inspection Date: 7/30/2015	**Beginning Section MP**	0	1	2	3	4
Paved Length (Miles): 23.19	**Section Length (MI)**	1	1	1	1	1
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	87	92	92	92	98	92
Surface Condition Rating (SCR)	95	98	98	98	98	96
Roughness Condition Index (RCI)	76	83	83	83	N/A	86
Distress Index Values						
Structural Crack Index	97	99	99	100	100	99
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	97	99	99	100	100	99
Transverse Cracking Index	97	99	100	100	100	96
Patching Index	99	100	100	100	100	100
Rutting Index	95	98	98	98	98	98
International Roughness Index (IRI)	181	159	161	161	N/A	150
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	21.1	21.8	21.4	20.9	21	21
Lane Width (ft)	8.8	9.9	9.4	9.6	9.4	9.1

Crater Lake National Park

ROUTE 0013: EAST RIM DRIVE

Data Collection Vehicle (DCV) Rating



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60) | **Fair (61- 84)** | **Good (85 - 94)** | **Excellent (95 - 100)** | **Not Rated**

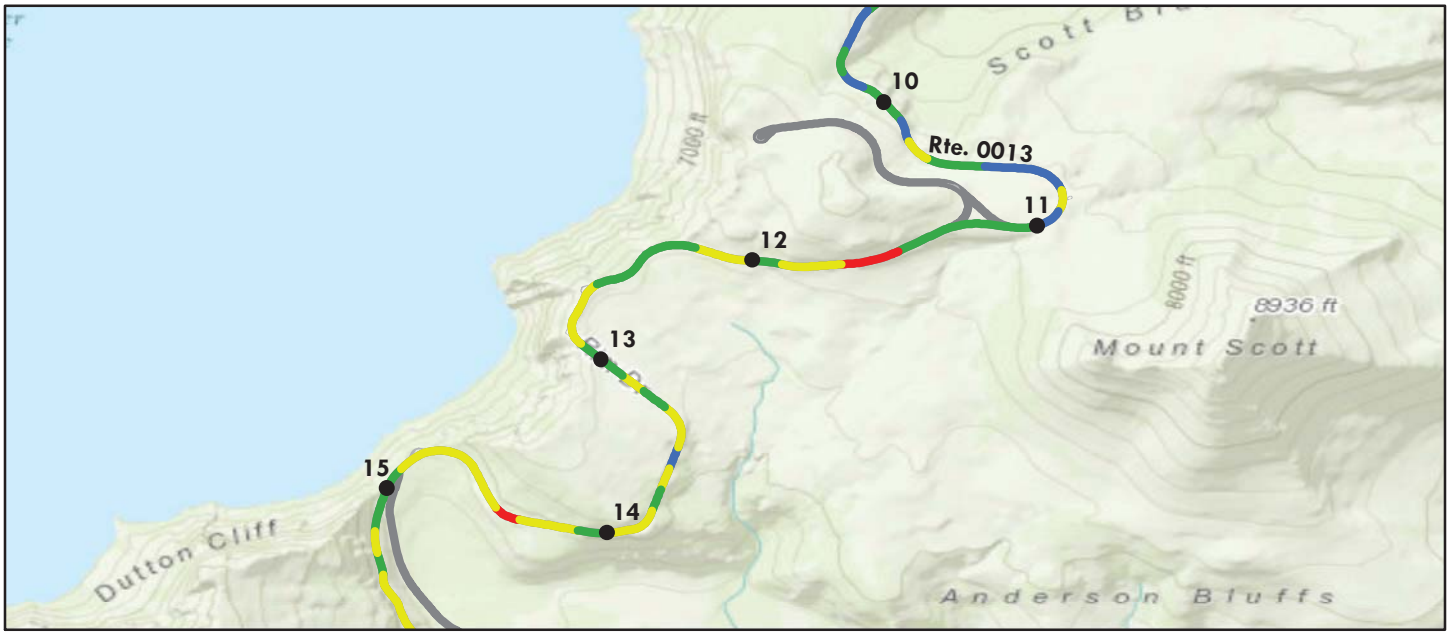
See Appendix for definitions and formulas

Inspection Date:	7/30/2015	**Beginning Section MP**	5	6	7	8	9
Paved Length (Miles):	23.19	**Section Length (MI)**	1	1	1	1	1
Surface Type:	ASPHALT	**Route Summary**					
Roadway Condition Information							
Pavement Condition Rating (PCR)		87	90	87	88	85	91
Surface Condition Rating (SCR)		95	97	95	94	93	97
Roughness Condition Index (RCI)		76	80	75	78	73	83
Distress Index Values							
Structural Crack Index		97	100	98	97	98	97
Alligator Crack Index		100	100	100	100	100	100
Longitudinal Crack Index		97	100	98	97	98	97
Transverse Cracking Index		97	98	95	96	93	100
Patching Index		99	99	99	99	100	100
Rutting Index		95	97	96	94	94	97
International Roughness Index (IRI)		181	170	185	176	190	161
Lane & Width Information							
Number of Lanes		2	2	2	2	2	2
Paved Width (ft)		21.1	20.6	21.2	21.2	21.1	20.2
Lane Width (ft)		8.8	8.9	9.6	9.2	9	9

Crater Lake National Park

ROUTE 0013: EAST RIM DRIVE

Data Collection Vehicle (DCV) Rating



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60) | **Fair (61- 84)** | **Good (85 - 94)** | **Excellent (95 - 100)** | **Not Rated**

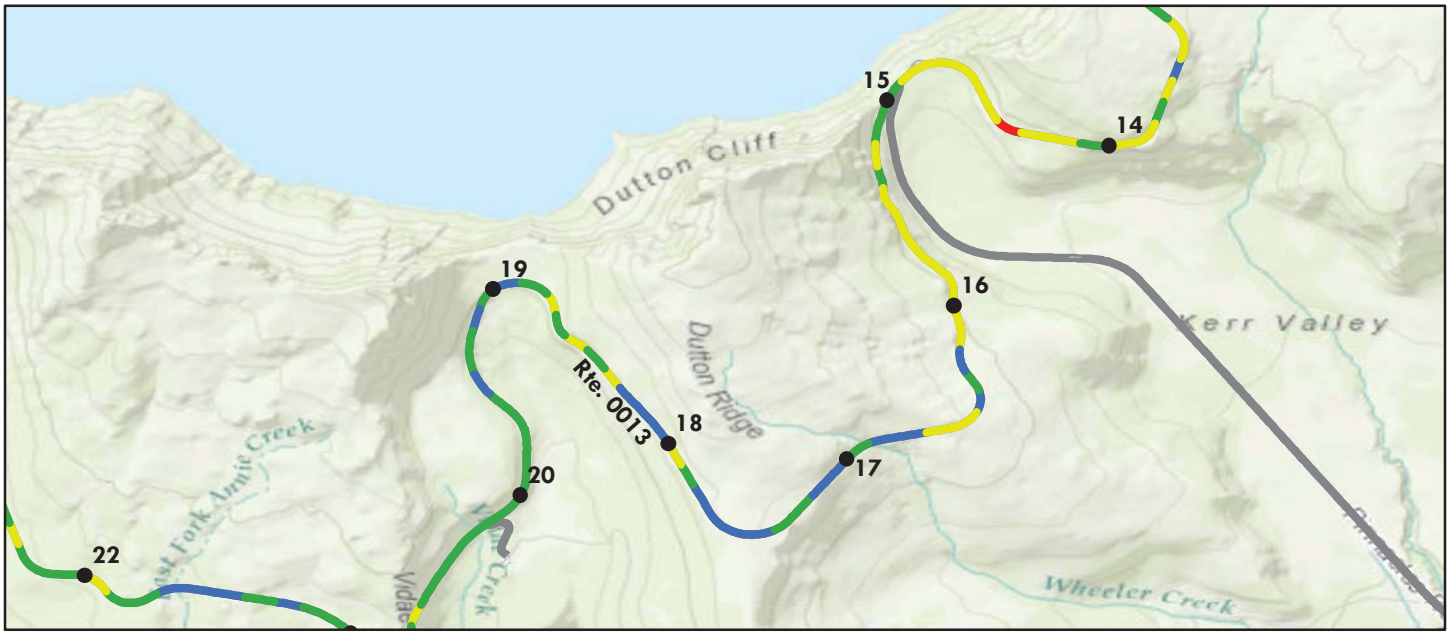
See Appendix for definitions and formulas

Inspection Date: 7/30/2015	**Beginning Section MP**	10	11	12	13	14
Paved Length (Miles): 23.19	**Section Length (MI)**	1	1	1	1	1
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	87	93	80	85	82	75
Surface Condition Rating (SCR)	95	96	89	93	92	92
Roughness Condition Index (RCI)	76	89	66	72	68	50
Distress Index Values						
Structural Crack Index	97	98	94	93	93	92
Alligator Crack Index	100	100	98	100	100	100
Longitudinal Crack Index	97	98	96	93	93	92
Transverse Cracking Index	97	99	96	93	96	97
Patching Index	99	100	100	100	99	100
Rutting Index	95	96	89	94	92	93
International Roughness Index (IRI)	181	144	216	195	210	283
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	21.1	20.8	20.8	22.3	20.1	20.4
Lane Width (ft)	8.8	8.8	8.4	8.7	8.3	7.8

Crater Lake National Park

ROUTE 0013: EAST RIM DRIVE

Data Collection Vehicle (DCV) Rating



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

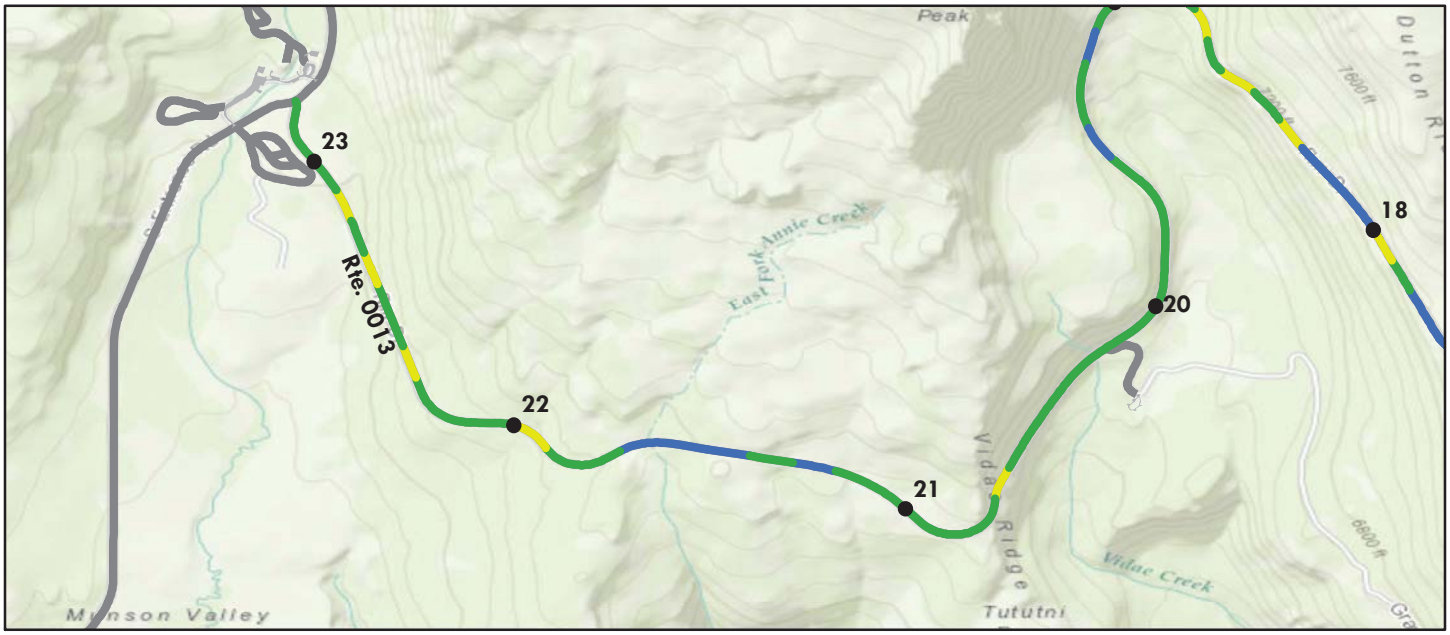
See Appendix for definitions and formulas

Inspection Date: 7/30/2015	**Beginning Section MP**	15	16	17	18	19
Paved Length (Miles): 23.19	**Section Length (MI)**	1	1	1	1	1
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	87	82	89	93	90	92
Surface Condition Rating (SCR)	95	97	95	97	96	97
Roughness Condition Index (RCI)	76	59	80	88	80	84
Distress Index Values						
Structural Crack Index	97	99	99	97	98	98
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	97	99	99	97	98	98
Transverse Cracking Index	97	99	99	97	99	99
Patching Index	99	97	100	100	99	100
Rutting Index	95	97	95	98	96	97
International Roughness Index (IRI)	181	245	170	147	170	158
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	21.1	20.8	21.4	20.8	21.6	21.5
Lane Width (ft)	8.8	8.4	8.7	8.5	8.7	8.7

Crater Lake National Park

ROUTE 0013: EAST RIM DRIVE

Data Collection Vehicle (DCV) Rating



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

Inspection Date: 7/30/2015	**Beginning Section MP**	20	21	22	23	
Paved Length (Miles): 23.19	**Section Length (MI)**	1	1	1	0.19	
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	87	88	92	84	93	
Surface Condition Rating (SCR)	95	94	94	97	91	
Roughness Condition Index (RCI)	76	79	88	64	95	
Distress Index Values						
Structural Crack Index	97	94	94	98	94	
Alligator Crack Index	100	100	100	100	100	
Longitudinal Crack Index	97	94	94	98	94	
Transverse Cracking Index	97	96	96	99	91	
Patching Index	99	100	100	98	100	
Rutting Index	95	97	97	97	97	
International Roughness Index (IRI)	181	173	146	222	128	
Lane & Width Information						
Number of Lanes	2	2	2	2	2	
Paved Width (ft)	21.1	21.6	22.1	22	25.1	
Lane Width (ft)	8.8	8	9	8.7	8.6	

Crater Lake National Park

ROUTE 0014: WEST RIM DRIVE

Data Collection Vehicle (DCV) Rating

Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60) | **Fair (61- 84)** | **Good (85 - 94)** | **Excellent (95 - 100)** | **Not Rated**

See Appendix for definitions and formulas

Inspection Date: 7/31/2015	**Beginning Section MP**	0	1	2	3	4
Paved Length (Miles): 5.92	**Section Length (MI)**	1	1	1	1	1
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	94	91	87	94	94	99
Surface Condition Rating (SCR)	97	95	92	98	98	99
Roughness Condition Index (RCI)	89	85	80	88	88	100
Distress Index Values						
Structural Crack Index	99	99	98	99	100	100
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	99	99	98	99	100	100
Transverse Cracking Index	97	95	92	99	98	100
Patching Index	100	100	100	100	100	100
Rutting Index	99	99	98	98	99	99
International Roughness Index (IRI)	142	155	170	146	147	106
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	25.2	25.6	25.1	24.8	23.6	25.3
Lane Width (ft)	10	10.3	9.7	9.5	9.6	10.1

Crater Lake National Park

ROUTE 0014: WEST RIM DRIVE

Data Collection Vehicle (DCV) Rating

Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

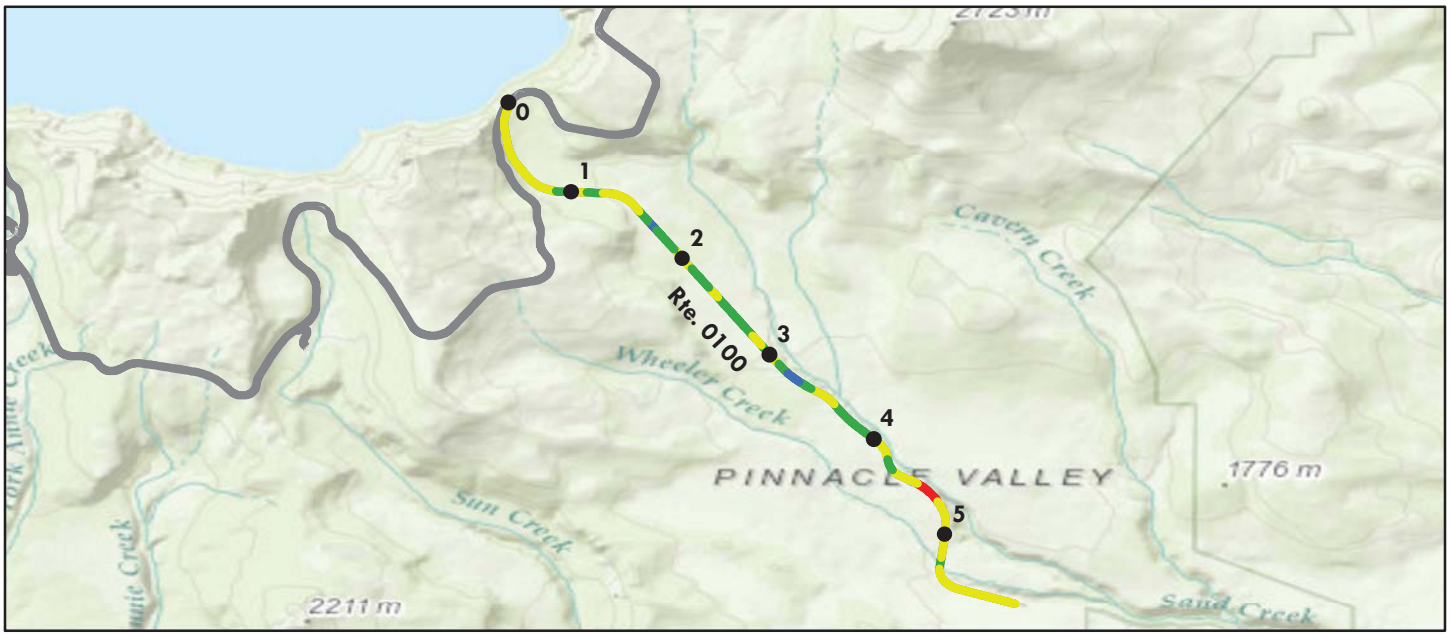
See Appendix for definitions and formulas

Inspection Date: 7/31/2015	**Beginning Section MP**	5				
Paved Length (Miles): 5.92	**Section Length (MI)**	0.92				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	94	97				
Surface Condition Rating (SCR)	97	99				
Roughness Condition Index (RCI)	89	94				
Distress Index Values						
Structural Crack Index	99	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	99	100				
Transverse Cracking Index	97	100				
Patching Index	100	100				
Rutting Index	99	99				
International Roughness Index (IRI)	142	129				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	25.2	27.2				
Lane Width (ft)	10	10.5				

Crater Lake National Park

ROUTE 0100: PINNACLES ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60) | **Fair (61- 84)** | **Good (85 - 94)** | **Excellent (95 - 100)** | **Not Rated**

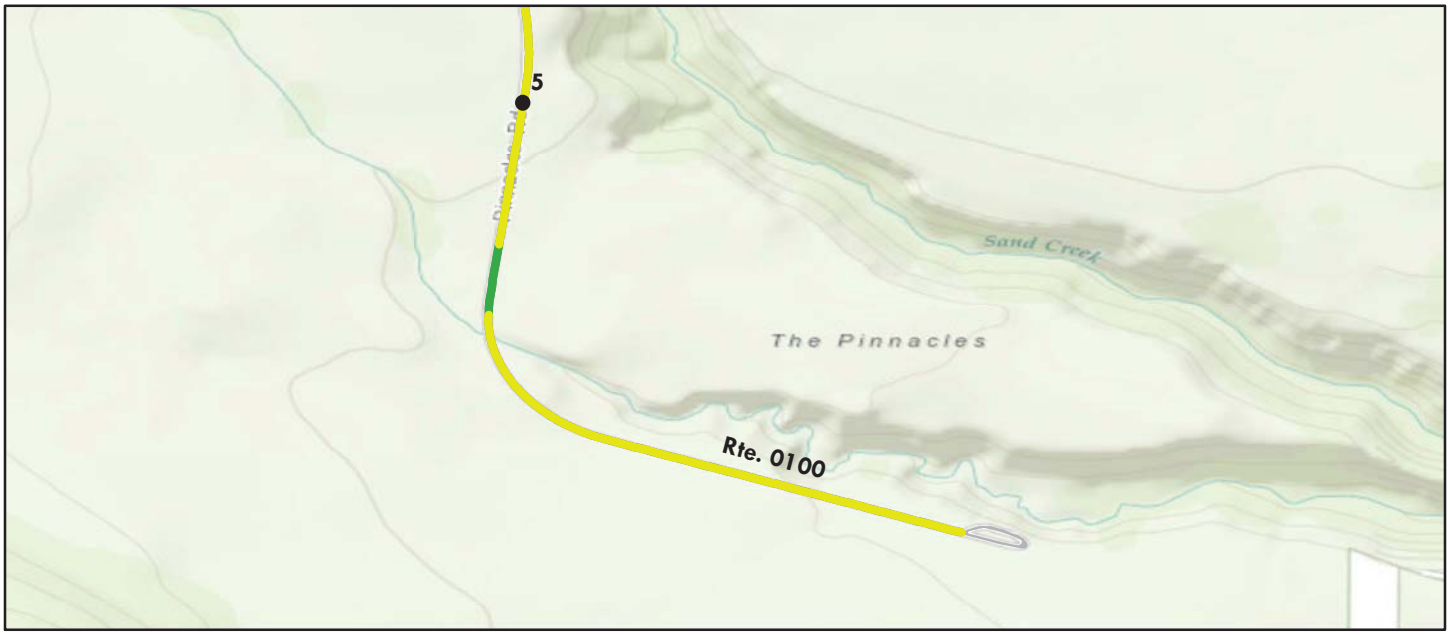
See Appendix for definitions and formulas

Inspection Date: 7/30/2015	**Beginning Section MP**	0	1	2	3	4
Paved Length (Miles): 5.92	**Section Length (MI)**	1	1	1	1	1
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	80	75	83	87	88	74
Surface Condition Rating (SCR)	96	98	97	97	95	94
Roughness Condition Index (RCI)	56	40	62	73	78	44
Distress Index Values						
Structural Crack Index	97	98	99	99	98	94
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	97	98	99	99	98	94
Transverse Cracking Index	97	98	97	97	95	96
Patching Index	100	100	100	100	100	100
Rutting Index	96	98	98	99	99	94
International Roughness Index (IRI)	257	338	232	192	176	314
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	18.3	18.4	18.6	18.8	18.3	18
Lane Width (ft)	8	7.9	8.3	8.5	8.2	7.3

Crater Lake National Park

ROUTE 0100: PINNACLES ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

Inspection Date: 7/30/2015	**Beginning Section MP**	5				
Paved Length (Miles): 5.92	**Section Length (MI)**	0.92				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	80	73				
Surface Condition Rating (SCR)	96	91				
Roughness Condition Index (RCI)	56	47				
Distress Index Values						
Structural Crack Index	97	93				
Alligator Crack Index	100	100				
Longitudinal Crack Index	97	93				
Transverse Cracking Index	97	100				
Patching Index	100	100				
Rutting Index	96	91				
International Roughness Index (IRI)	257	297				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	18.3	17.9				
Lane Width (ft)	8	7.5				

Crater Lake National Park

ROUTE 0200: MAZAMA VILLAGE ENTRANCE ROAD

Data Collection Vehicle (DCV) Rating

Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

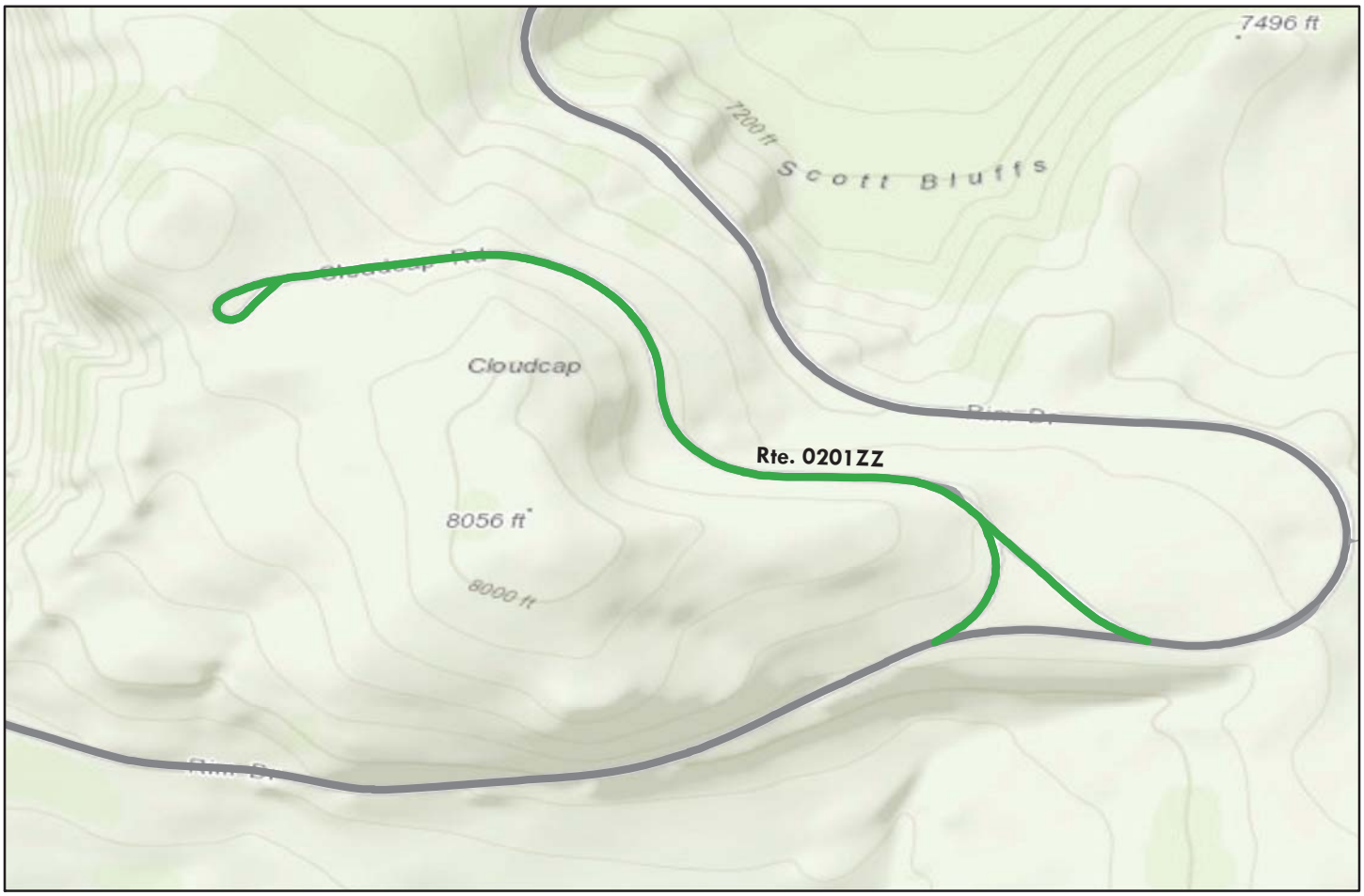
See Appendix for definitions and formulas

Inspection Date: 7/31/2015	**Beginning Section MP**	0				
Paved Length (Miles): 0.46	**Section Length (MI)**	0.46				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	95	95				
Surface Condition Rating (SCR)	95	95				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	97	97				
Patching Index	99	99				
Rutting Index	95	95				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	22	22				
Lane Width (ft)	12.4	12.4				

Crater Lake National Park

ROUTE 0201ZZ: CLOUDCAP VIEWPOINT ROADS

Summary Route



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Note: The weighted average summary PCR value is calculated from only the sections of road where the PCR was collected. The overall PCR for the summary route may not reflect individual subcomponent ratings.

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

Inspection Date:	7/30/2015
Paved Length (Miles):	1.33
Surface Type:	ASPHALT
Roadway Condition Information	
Pavement Condition Rating (PCR)	90
Lane & Width Information	
Number of Lanes	2
Paved Width (ft)	20.9
Lane Width (ft)	9.4

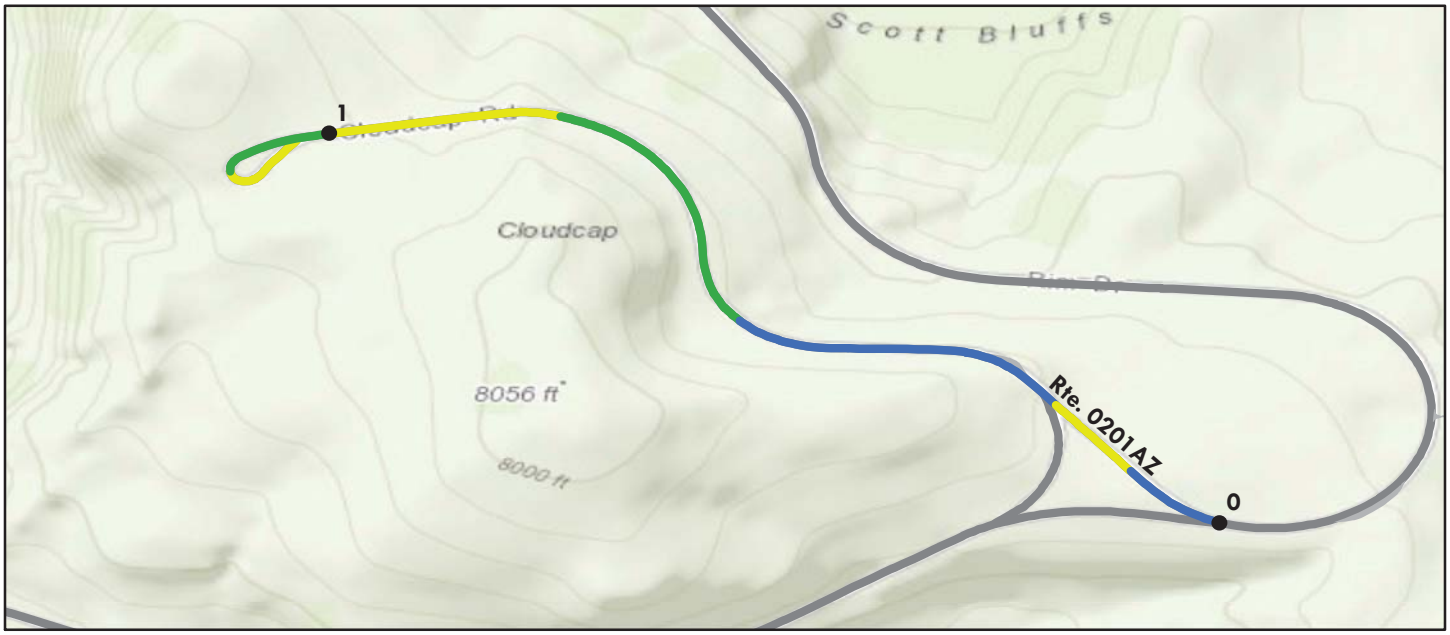
Route Summary

Crater Lake National Park

ROUTE 0201AZ: CLOUDCAP VIEWPOINT ROAD

Subcomponent of Route CRLA-0201ZZ

Data Collection Vehicle (DCV) Rating



Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

Inspection Date: 7/30/2015	**Beginning Section MP**	0	1			
Paved Length (Miles): 1.17	**Section Length (MI)**	1	0.17			
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	89	90	85			
Surface Condition Rating (SCR)	94	94	95			
Roughness Condition Index (RCI)	82	84	71			
Distress Index Values						
Structural Crack Index	100	100	99			
Alligator Crack Index	100	100	100			
Longitudinal Crack Index	100	100	99			
Transverse Cracking Index	99	99	99			
Patching Index	100	100	100			
Rutting Index	94	94	95			
International Roughness Index (IRI)	162	158	200			
Lane & Width Information						
Number of Lanes	2	2	2			
Paved Width (ft)	20.9	20.7	22.5			
Lane Width (ft)	9.9	9.6	11.2			

Crater Lake National Park

ROUTE 0201BZ: CLOUDCAP VIEWPOINT ROAD SPUR

Subcomponent of Route CRLA-0201ZZ

Data Collection Vehicle (DCV) Rating

Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

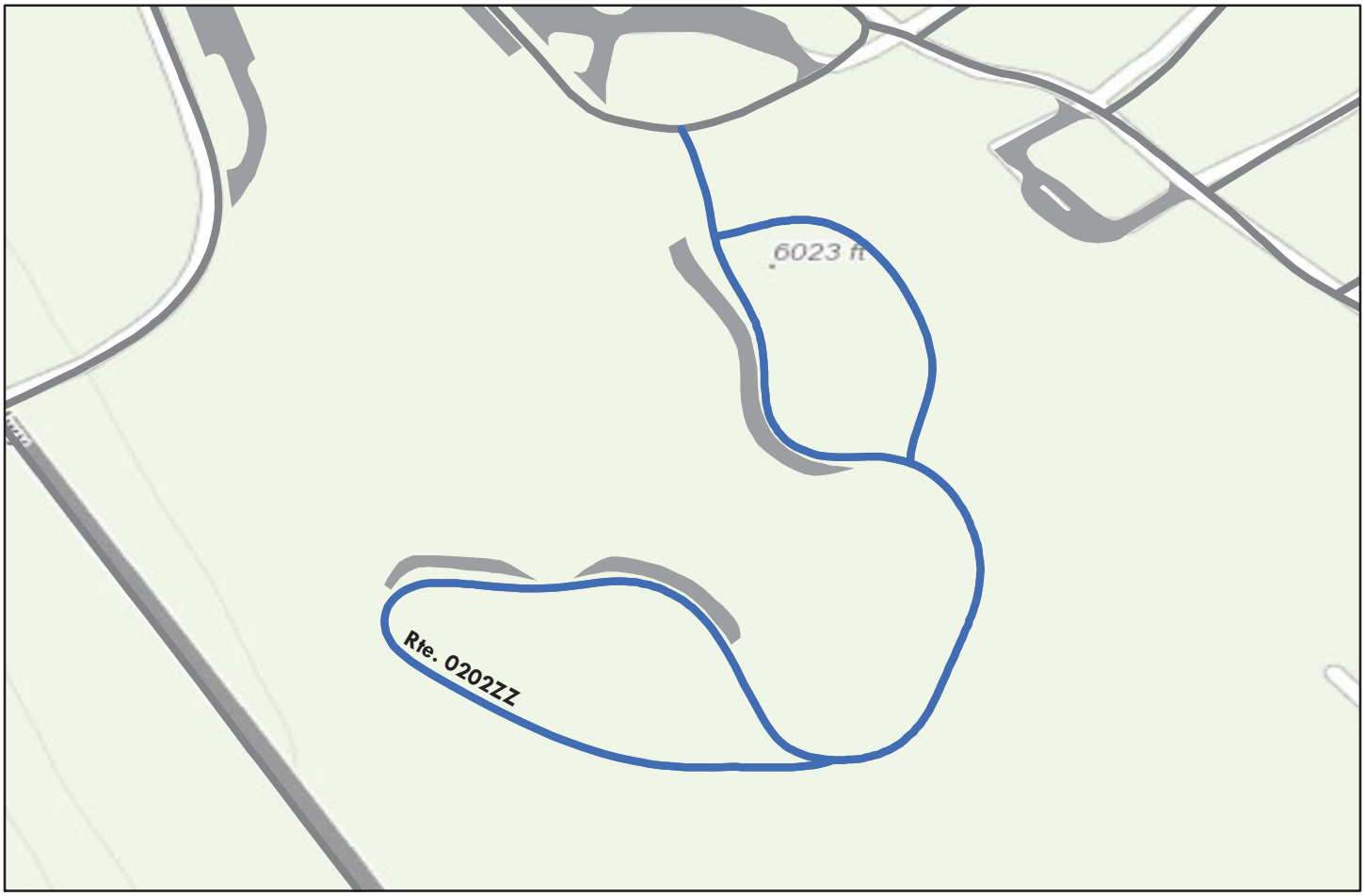
See Appendix for definitions and formulas

Inspection Date: 7/30/2015	**Beginning Section MP**	0				
Paved Length (Miles): 0.16	**Section Length (MI)**	0.16				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	96	96				
Surface Condition Rating (SCR)	96	96				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	96	96				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	20.9	20.9				
Lane Width (ft)	5.8	5.8				

Crater Lake National Park

ROUTE 0202ZZ: MAZAMA MOTOR LODGE ROADS

Summary Route



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Note: The weighted average summary PCR value is calculated from only the sections of road where the PCR was collected. The overall PCR for the summary route may not reflect individual subcomponent ratings.

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

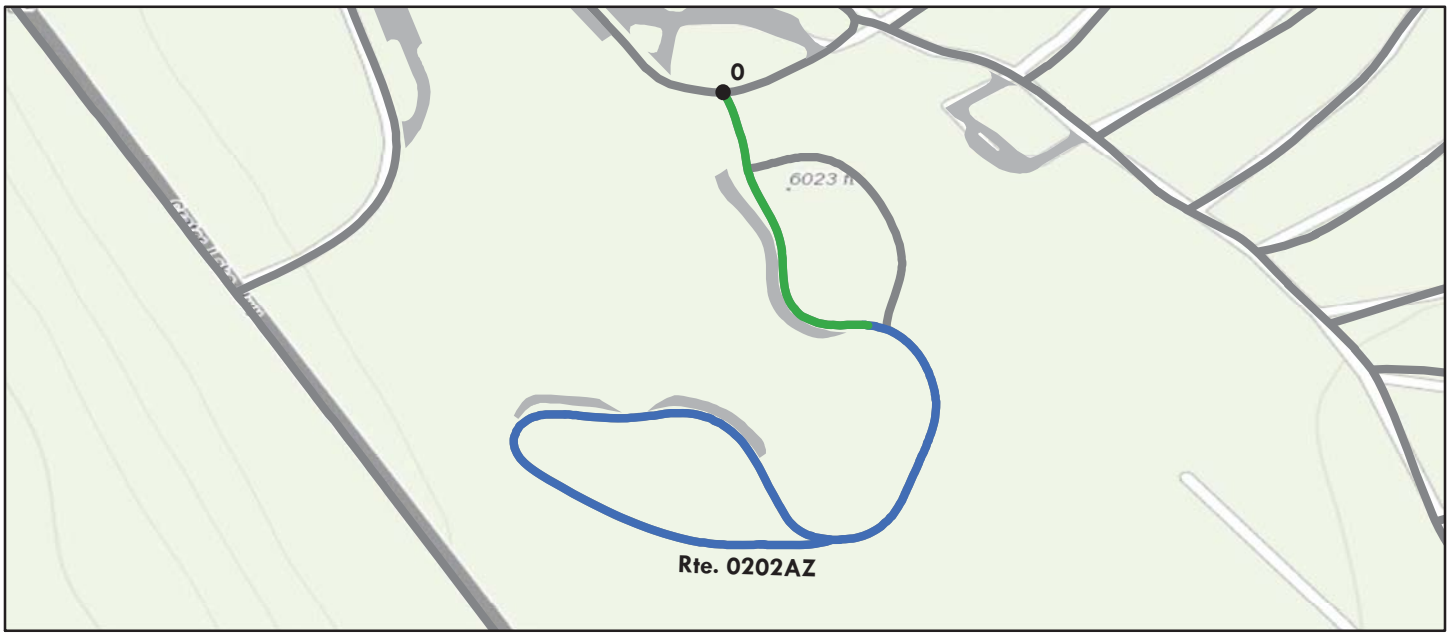
Inspection Date:	7/31/2015						
Paved Length (Miles):	0.5						
Surface Type:	ASPHALT	**Route Summary**					
Roadway Condition Information							
Pavement Condition Rating (PCR)		95					
Lane & Width Information							
Number of Lanes		1					
Paved Width (ft)		12.7					
Lane Width (ft)		11.6					

Crater Lake National Park

ROUTE 0202AZ: MAZAMA MOTOR LODGE LOOP ROAD

Subcomponent of Route CRLA-0202ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

Inspection Date: 7/31/2015	**Beginning Section MP**	0				
Paved Length (Miles): 0.42	**Section Length (MI)**	0.41				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	95	95				
Surface Condition Rating (SCR)	95	95				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	98	98				
Alligator Crack Index	100	100				
Longitudinal Crack Index	98	98				
Transverse Cracking Index	95	95				
Patching Index	100	100				
Rutting Index	98	98				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	13.3	13.3				
Lane Width (ft)	12	12				

Crater Lake National Park

ROUTE 0202BZ: MAZAMA MOTOR LODGE ROAD

Subcomponent of Route CRLA-0202ZZ

Data Collection Vehicle (DCV) Rating

Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

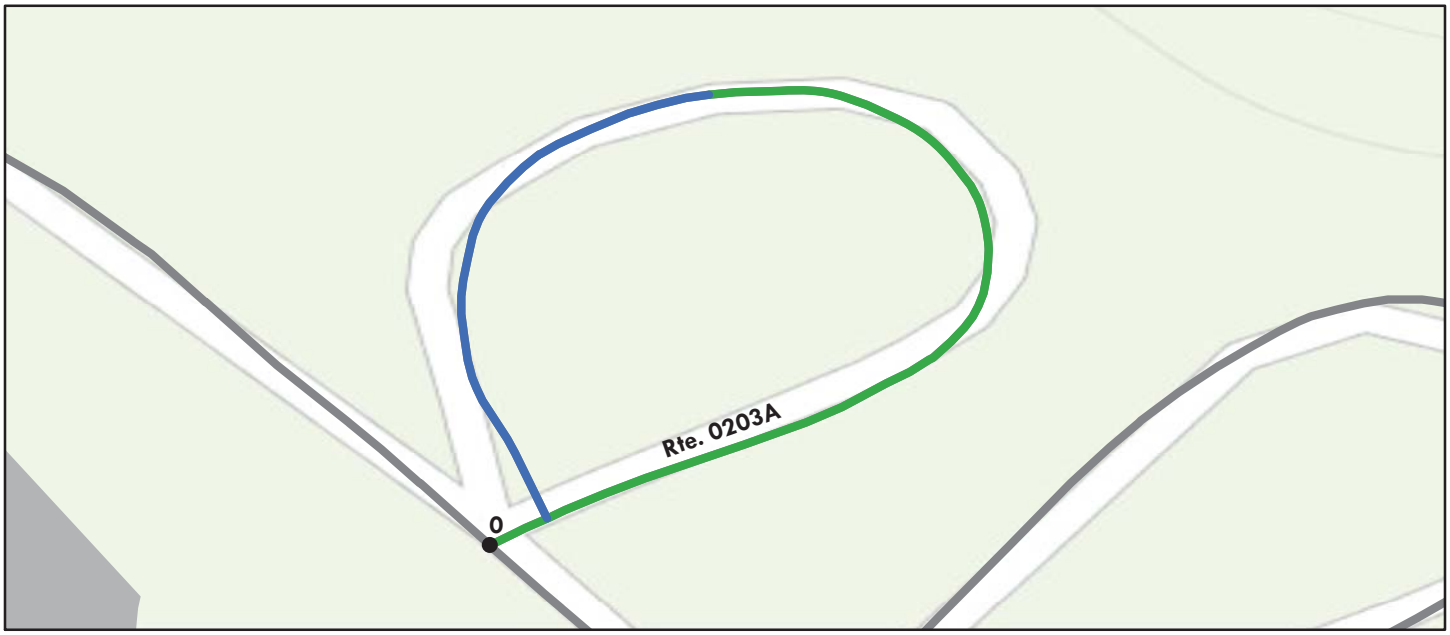
See Appendix for definitions and formulas

Inspection Date: 7/31/2015	**Beginning Section MP**	0				
Paved Length (Miles): 0.09	**Section Length (MI)**	0.09				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	98	98				
Surface Condition Rating (SCR)	98	98				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	98	98				
Patching Index	100	100				
Rutting Index	99	99				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	9.8	9.8				
Lane Width (ft)	9.8	9.8				

Crater Lake National Park

ROUTE 0203A: MAZAMA CAMPGROUND LOOP A

Data Collection Vehicle (DCV) Rating



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

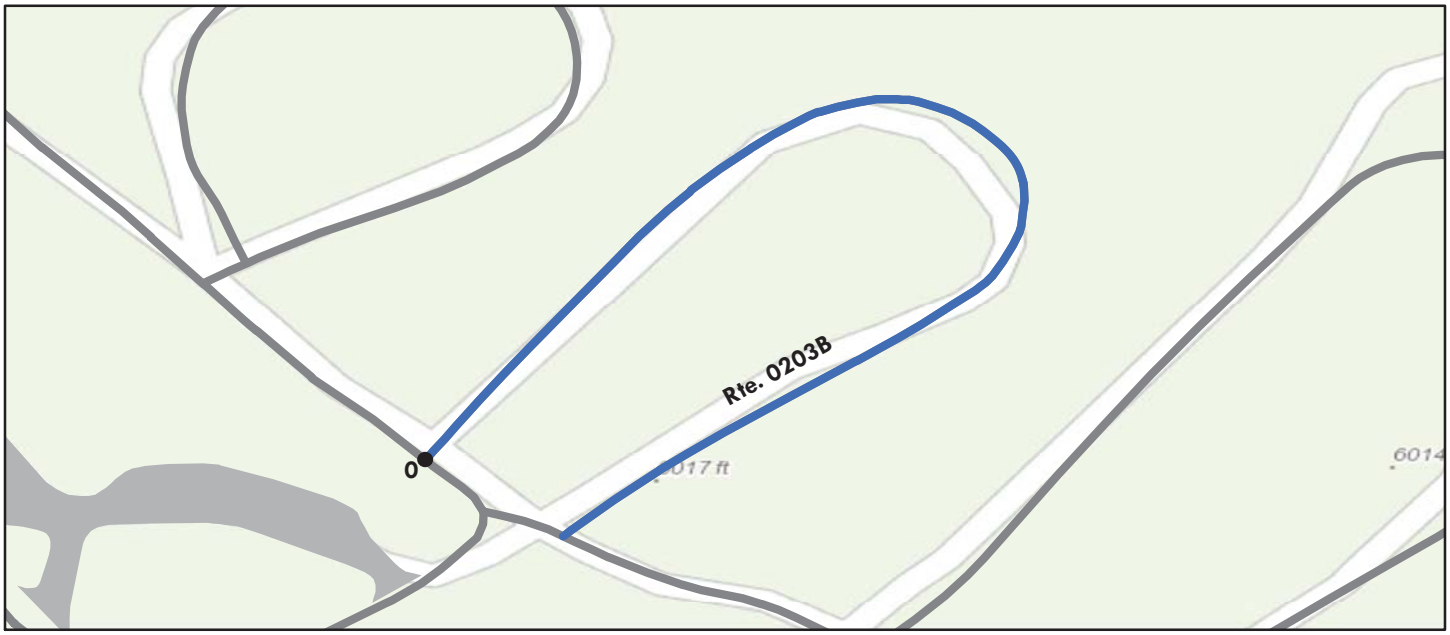
See Appendix for definitions and formulas

Inspection Date: 7/31/2015	**Beginning Section MP**	0				
Paved Length (Miles): 0.16	**Section Length (MI)**	0.16				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	94	94				
Surface Condition Rating (SCR)	94	94				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	94	94				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	15.1	15.1				
Lane Width (ft)	15.1	15.1				

Crater Lake National Park

ROUTE 0203B: MAZAMA CAMPGROUND LOOP B

Data Collection Vehicle (DCV) Rating



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

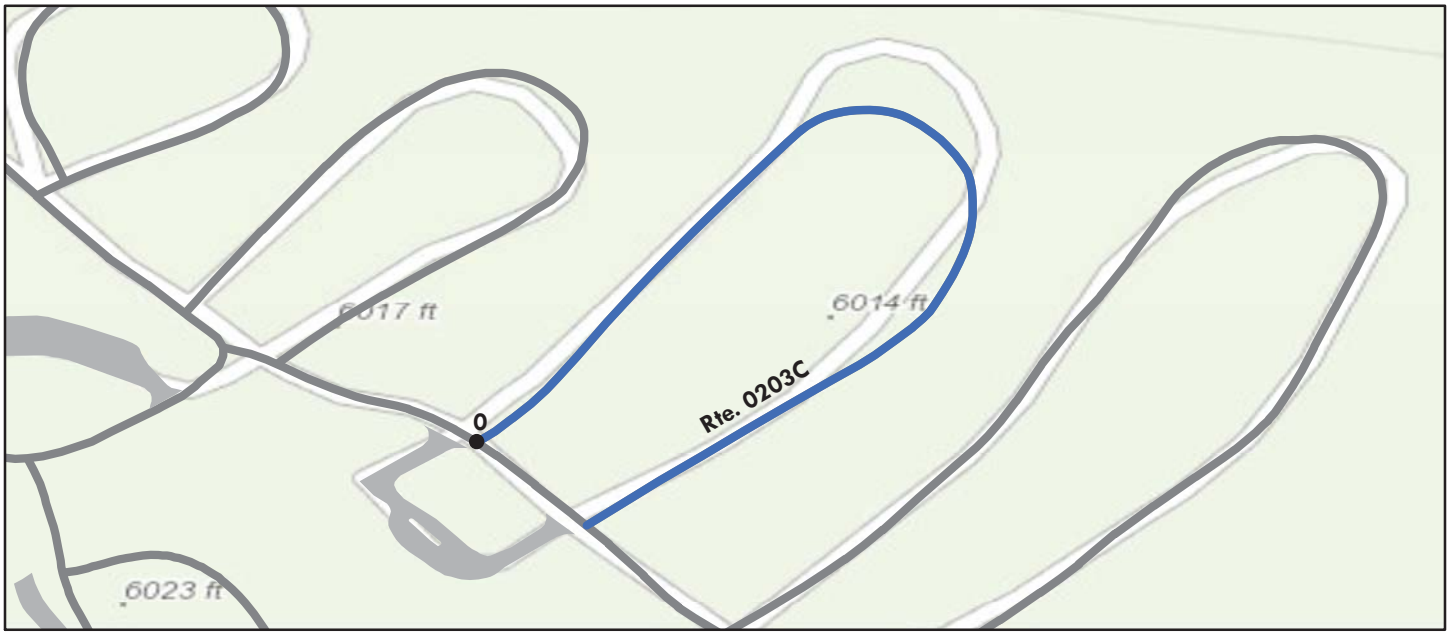
See Appendix for definitions and formulas

Inspection Date: 7/31/2015	**Beginning Section MP**	0				
Paved Length (Miles): 0.18	**Section Length (MI)**	0.18				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	99	99				
Surface Condition Rating (SCR)	99	99				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	99	99				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	17.5	17.5				
Lane Width (ft)	17.5	17.5				

Crater Lake National Park

ROUTE 0203C: MAZAMA CAMPGROUND LOOP C

Data Collection Vehicle (DCV) Rating



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

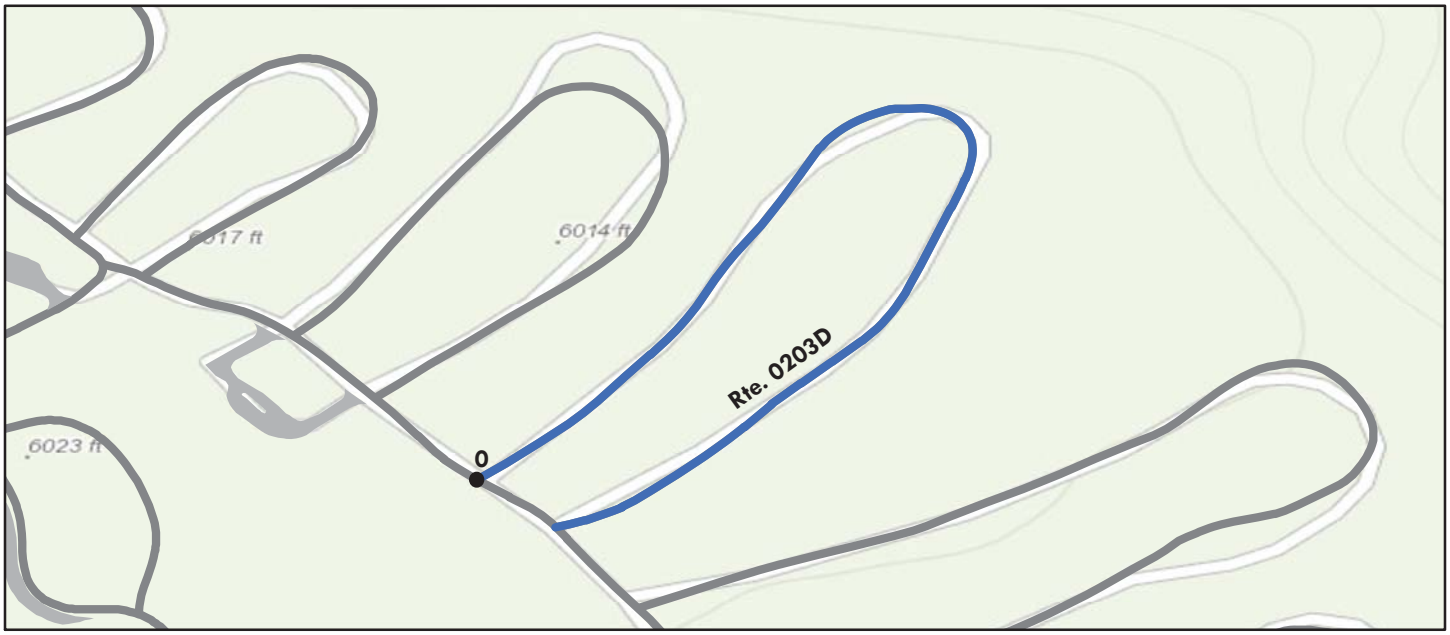
See Appendix for definitions and formulas

Inspection Date: 7/31/2015	**Beginning Section MP**	0				
Paved Length (Miles): 0.26	**Section Length (MI)**	0.26				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	99	99				
Surface Condition Rating (SCR)	99	99				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	99	99				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	16.7	16.7				
Lane Width (ft)	16.7	16.7				

Crater Lake National Park

ROUTE 0203D: MAZAMA CAMPGROUND LOOP D

Data Collection Vehicle (DCV) Rating



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

Inspection Date: 7/31/2015	**Beginning Section MP**	0				
Paved Length (Miles): 0.36	**Section Length (MI)**	0.36				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	100	100				
Surface Condition Rating (SCR)	100	100				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	100	100				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	17	17				
Lane Width (ft)	17	17				

Crater Lake National Park

ROUTE 0203E: MAZAMA CAMPGROUND LOOP E

Data Collection Vehicle (DCV) Rating

Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

Inspection Date: 7/31/2015	**Beginning Section MP**	0				
Paved Length (Miles): 0.41	**Section Length (MI)**	0.41				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	98	98				
Surface Condition Rating (SCR)	98	98				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	98	98				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	10.7	10.7				
Lane Width (ft)	10.7	10.7				

Crater Lake National Park

ROUTE 0203F: MAZAMA CAMPGROUND LOOP F

Data Collection Vehicle (DCV) Rating

Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

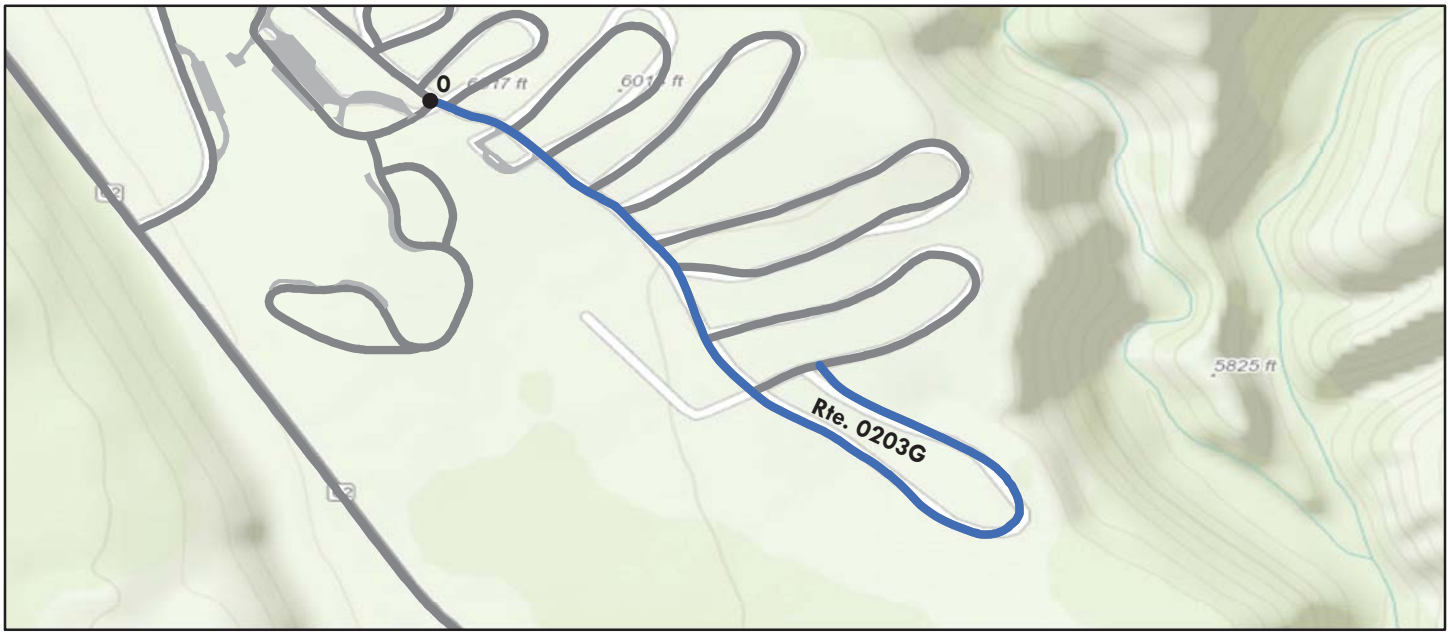
See Appendix for definitions and formulas

Inspection Date: 7/31/2015	**Beginning Section MP**	0				
Paved Length (Miles): 0.34	**Section Length (MI)**	0.34				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	97	97				
Surface Condition Rating (SCR)	97	97				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	97	97				
Rutting Index	98	98				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	12.7	12.7				
Lane Width (ft)	12.7	12.7				

Crater Lake National Park

ROUTE 0203G: MAZAMA CAMPGROUND LOOP G

Data Collection Vehicle (DCV) Rating



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

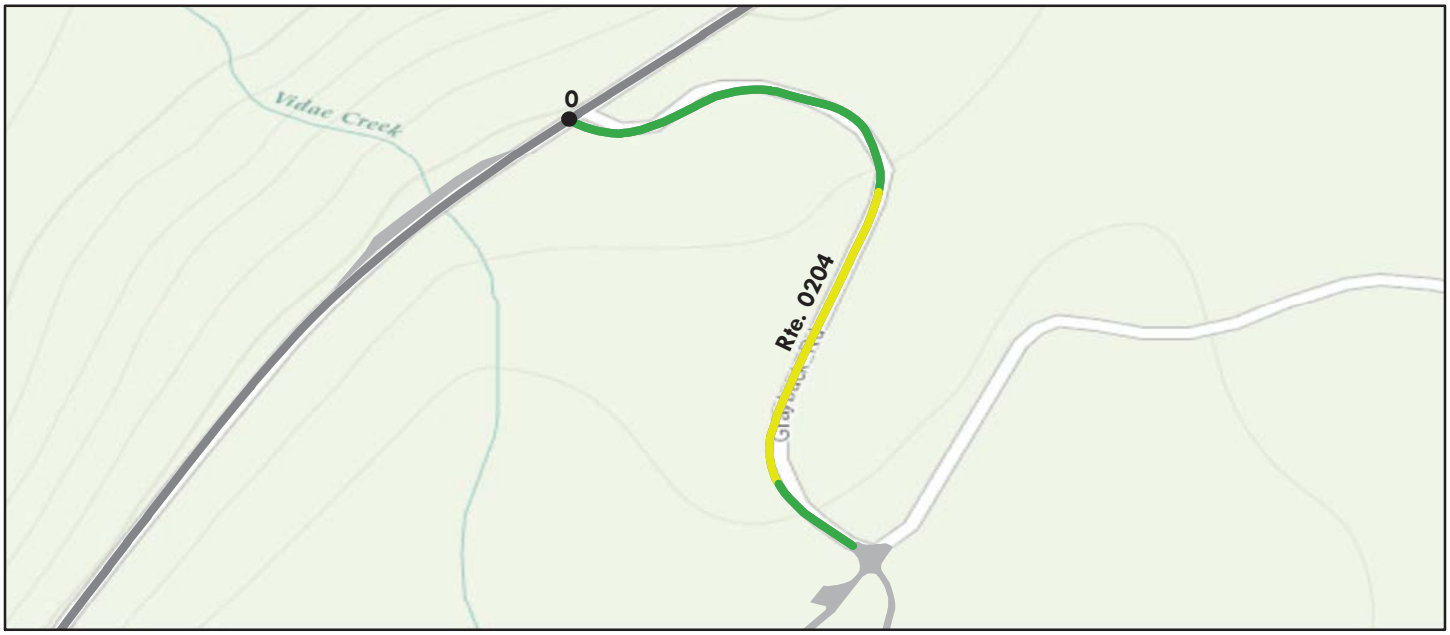
See Appendix for definitions and formulas

Inspection Date: 7/31/2015	**Beginning Section MP**	0				
Paved Length (Miles): 0.67	**Section Length (MI)**	0.67				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	99	99				
Surface Condition Rating (SCR)	99	99				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	99	99				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	14.3	14.3				
Lane Width (ft)	10.1	10.1				

Crater Lake National Park

ROUTE 0204: VIDAE FALLS PICNIC AREA LOOP

Data Collection Vehicle (DCV) Rating



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

Inspection Date: 7/30/2015	**Beginning Section MP**	0				
Paved Length (Miles): 0.23	**Section Length (MI)**	0.23				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	86	86				
Surface Condition Rating (SCR)	86	86				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	98	98				
Alligator Crack Index	100	100				
Longitudinal Crack Index	98	98				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	86	86				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	18.8	18.8				
Lane Width (ft)	9.4	9.4				

Crater Lake National Park

ROUTE 0207ZZ: PICNIC HILL LOOPS

Summary Route

Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Note: The weighted average summary PCR value is calculated from only the sections of road where the PCR was collected. The overall PCR for the summary route may not reflect individual subcomponent ratings.

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

Inspection Date:	6/12/2015
Paved Length (Miles):	0.89
Surface Type:	ASPHALT
Roadway Condition Information	
Pavement Condition Rating (PCR)	43
Lane & Width Information	
Number of Lanes	1
Paved Width (ft)	11.8
Lane Width (ft)	11.8

Route Summary

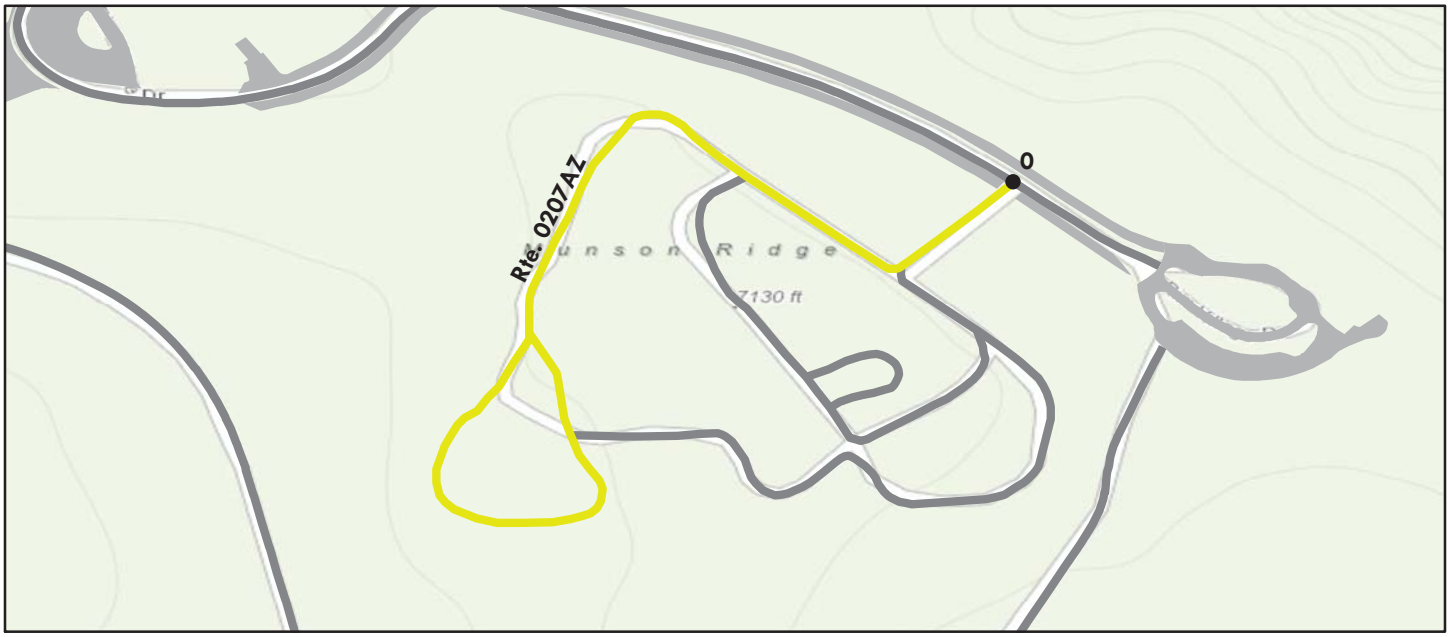
Route was manually rated in cycle 6 due to the poor condition of the road

Crater Lake National Park

ROUTE 0207AZ: PICNIC HILL LOOP A

Subcomponent of Route CRLA-0207ZZ

Manual Rating



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

Inspection Date: 6/12/2015	**Beginning Section MP**	0.00				
Paved Length (Miles): 0.41	**Section Length (MI)**	0.41				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	73	73				
Surface Condition Rating (SCR)	73	73				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	N/A	N/A				
Alligator Crack Index	73	73				
Longitudinal Crack Index	73	73				
Transverse Cracking Index	73	73				
Patching Index	97	97				
Rutting Index	73	73				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	12	12				
Lane Width (ft)	12	12				

Crater Lake National Park

ROUTE 0207AZ: PICNIC HILL LOOP A

Condition Photos

Condition photos are shown only for manually rated roads. Use the PathView program to see images of DCV rated roads.

CRLA_0207AZ_1904.JPG

CRLA_0207AZ_1905.JPG

CRLA_0207AZ_1906.JPG

CRLA_0207AZ_1907.JPG

CRLA_0207AZ_1909.JPG

CRLA_0207AZ_1910.JPG

Crater Lake National Park

ROUTE 0207BZ: PICNIC HILL LOOP B

Subcomponent of Route CRLA-0207ZZ

Manual Rating

Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

Inspection Date:	6/12/2015	**Beginning Section MP**	0.00				
Paved Length (Miles):	0.25	**Section Length (MI)**	0.25				
Surface Type:	ASPHALT	**Route Summary**					
Roadway Condition Information							
Pavement Condition Rating (PCR)		0	0				
Surface Condition Rating (SCR)		0	0				
Roughness Condition Index (RCI)		N/A	N/A				
Distress Index Values							
Structural Crack Index		N/A	N/A				
Alligator Crack Index		N/A	N/A				
Longitudinal Crack Index		N/A	N/A				
Transverse Cracking Index		N/A	N/A				
Patching Index		N/A	N/A				
Rutting Index		N/A	N/A				
International Roughness Index (IRI)		N/A	N/A				
Lane & Width Information							
Number of Lanes		1	1				
Paved Width (ft)		13	13				
Lane Width (ft)		13	13				

Route was given a Pavement Condition Rating (PCR) of 0 because it is in very poor condition. Individual distress indices could not be determined because of the excessive distress quantity and missing sections of pavement.

Crater Lake National Park

ROUTE 0207BZ: PICNIC HILL LOOP B

Condition Photos

Condition photos are shown only for manually rated roads. Use the PathView program to see images of DCV rated roads.

CRLA_0207BZ_1911.JPG

CRLA_0207BZ_1912.JPG

CRLA_0207BZ_1913.JPG

CRLA_0207BZ_1915.JPG

CRLA_0207BZ_1916.JPG

CRLA_0207BZ_1917.JPG

Crater Lake National Park

ROUTE 0207CZ: PICNIC HILL LOOP C

Subcomponent of Route CRLA-0207ZZ

Manual Rating

Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

Inspection Date: 6/12/2015	**Beginning Section MP**	0.00				
Paved Length (Miles): 0.17	**Section Length (MI)**	0.17				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	53	53				
Surface Condition Rating (SCR)	53	53				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	N/A	N/A				
Alligator Crack Index	53	53				
Longitudinal Crack Index	73	73				
Transverse Cracking Index	73	73				
Patching Index	97	97				
Rutting Index	73	73				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	10	10				
Lane Width (ft)	10	10				

Crater Lake National Park

ROUTE 0207CZ: PICNIC HILL LOOP C

Condition Photos

Condition photos are shown only for manually rated roads. Use the PathView program to see images of DCV rated roads.

CRLA_0207CZ_1896.JPG

CRLA_0207CZ_1897.JPG

CRLA_0207CZ_1898.JPG

CRLA_0207CZ_1899.JPG

CRLA_0207CZ_1900.JPG

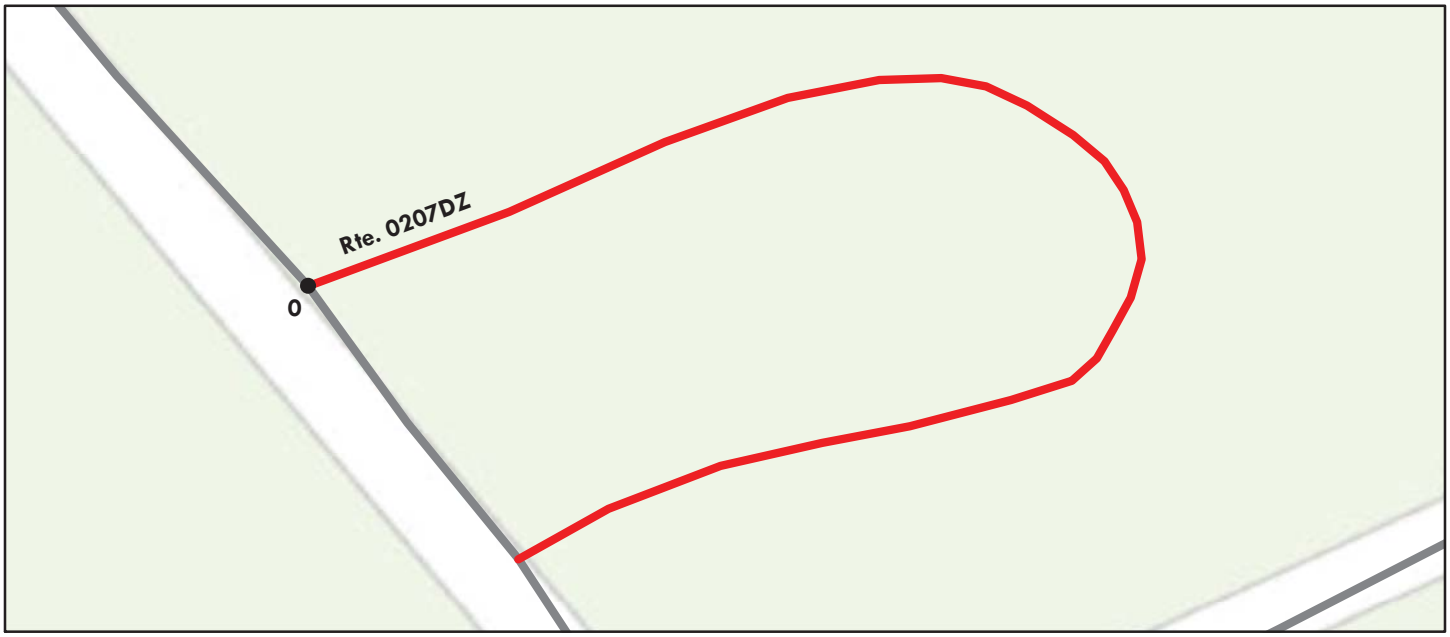
CRLA_0207CZ_1902.JPG

Crater Lake National Park

ROUTE 0207DZ: PICNIC HILL LOOP D

Subcomponent of Route CRLA-0207ZZ

Manual Rating



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60) | **Fair (61- 84)** | **Good (85 - 94)** | **Excellent (95 - 100)** | **Not Rated**

See Appendix for definitions and formulas

Inspection Date: 6/12/2015	**Beginning Section MP**	0.00					
Paved Length (Miles): 0.06	**Section Length (MI)**	0.06					
Surface Type: ASPHALT	**Route Summary**						
Roadway Condition Information							
Pavement Condition Rating (PCR)	0	0					
Surface Condition Rating (SCR)	0	0					
Roughness Condition Index (RCI)	N/A	N/A					
Distress Index Values							
Structural Crack Index	N/A	N/A					
Alligator Crack Index	N/A	N/A					
Longitudinal Crack Index	N/A	N/A					
Transverse Cracking Index	N/A	N/A					
Patching Index	N/A	N/A					
Rutting Index	N/A	N/A					
International Roughness Index (IRI)	N/A	N/A					
Lane & Width Information							
Number of Lanes	1	1					
Paved Width (ft)	10	10					
Lane Width (ft)	10	10					

Route was given a Pavement Condition Rating (PCR) of 0 because it is in very poor condition. Individual distress indices could not be determined because of the excessive distress quantity and missing sections of pavement.

Crater Lake National Park

ROUTE 0207DZ: PICNIC HILL LOOP D

Condition Photos

Condition photos are shown only for manually rated roads. Use the PathView program to see images of DCV rated roads.

CRLA_0207DZ_1890.JPG

CRLA_0207DZ_1891.JPG

CRLA_0207DZ_1892.JPG

CRLA_0207DZ_1893.JPG

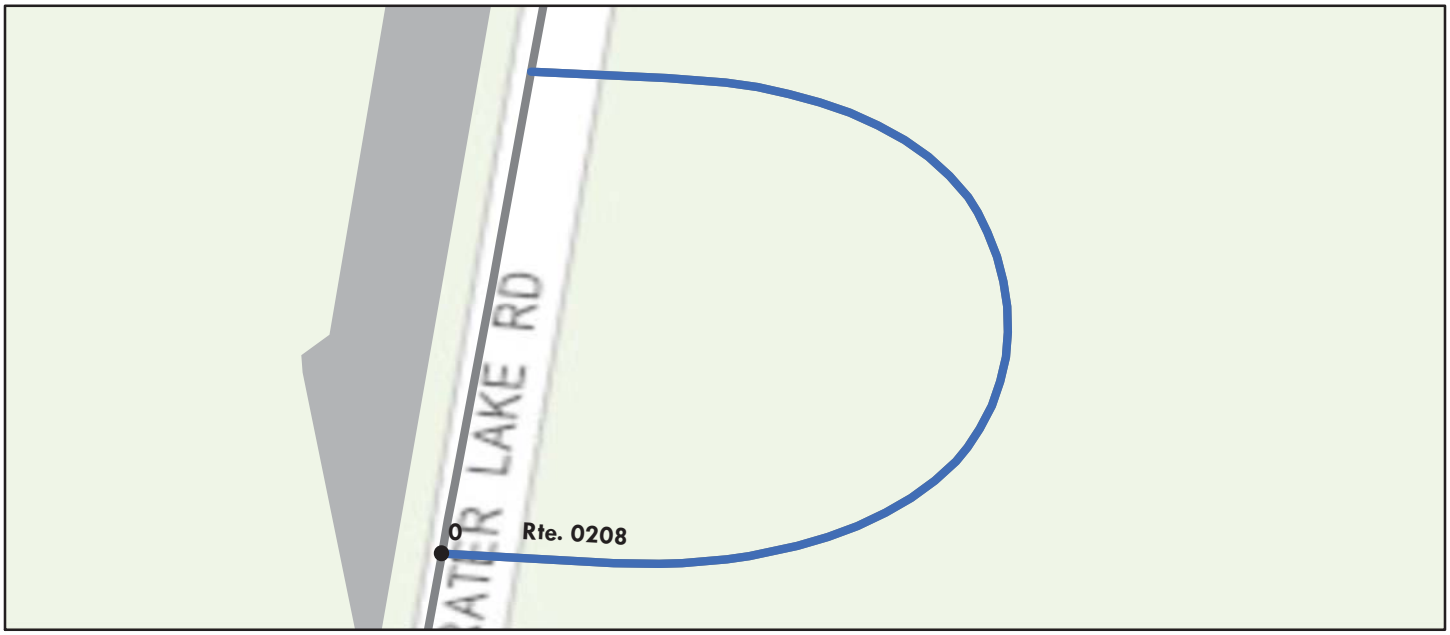
CRLA_0207DZ_1894.JPG

CRLA_0207DZ_1895.JPG

Crater Lake National Park

ROUTE 0208: NORTH ENTRANCE TURNAROUND

Data Collection Vehicle (DCV) Rating



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

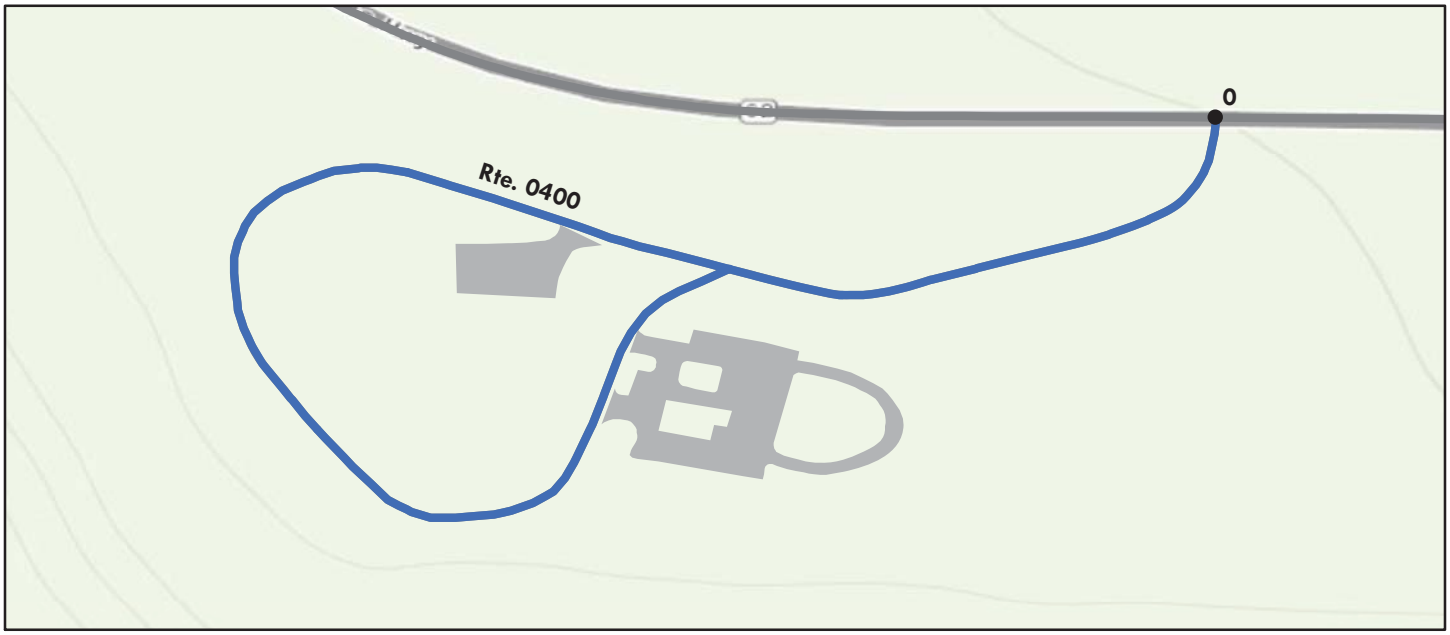
See Appendix for definitions and formulas

Inspection Date: 7/30/2015	**Beginning Section MP**	0				
Paved Length (Miles): 0.03	**Section Length (MI)**	0.03				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	99	99				
Surface Condition Rating (SCR)	99	99				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	99	99				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	18	18				
Lane Width (ft)	18	18				

Crater Lake National Park

ROUTE 0400: MAZAMA DORMITORIES ACCESS

Data Collection Vehicle (DCV) Rating



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

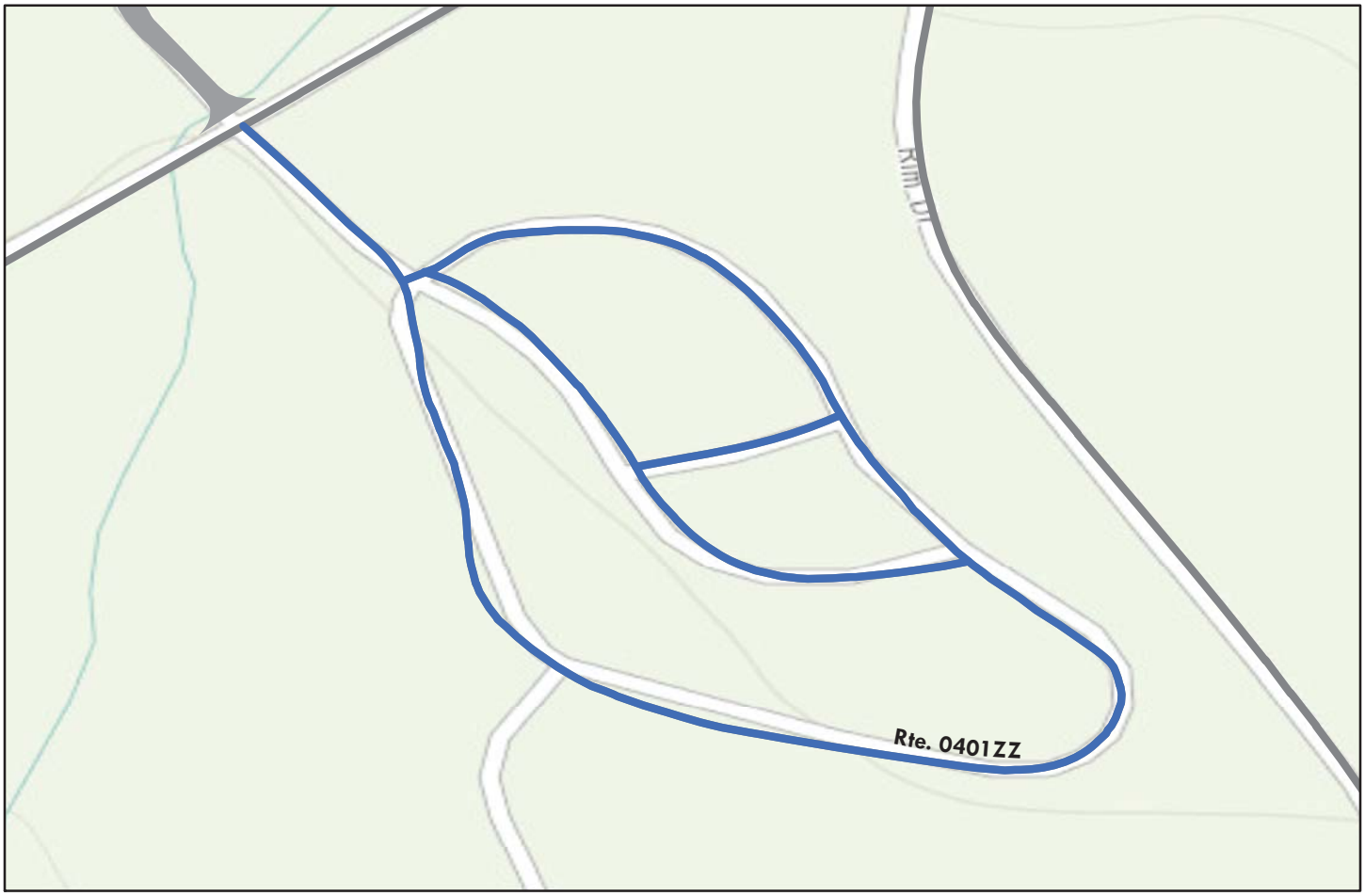
See Appendix for definitions and formulas

Inspection Date: 7/31/2015	**Beginning Section MP**	0				
Paved Length (Miles): 0.43	**Section Length (MI)**	0.43				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	97	97				
Surface Condition Rating (SCR)	97	97				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	98	98				
Alligator Crack Index	100	100				
Longitudinal Crack Index	98	98				
Transverse Cracking Index	99	99				
Patching Index	100	100				
Rutting Index	97	97				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	19.4	19.4				
Lane Width (ft)	9.7	9.7				

Crater Lake National Park

ROUTE 0401ZZ: HEADQUARTERS RESIDENCE AREA ROADS

Summary Route



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Note: The weighted average summary PCR value is calculated from only the sections of road where the PCR was collected. The overall PCR for the summary route may not reflect individual subcomponent ratings.

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

Inspection Date: 7/31/2015	
Paved Length (Miles): 0.66	
Surface Type: ASPHALT	**Route Summary**
Roadway Condition Information	
Pavement Condition Rating (PCR)	95
Lane & Width Information	
Number of Lanes	2
Paved Width (ft)	20.6
Lane Width (ft)	10.3

Crater Lake National Park

ROUTE 0401AZ: HEADQUARTERS RESIDENCE AREA OUTER LOOP ROAD

Subcomponent of Route CRLA-0401ZZ

Data Collection Vehicle (DCV) Rating

Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

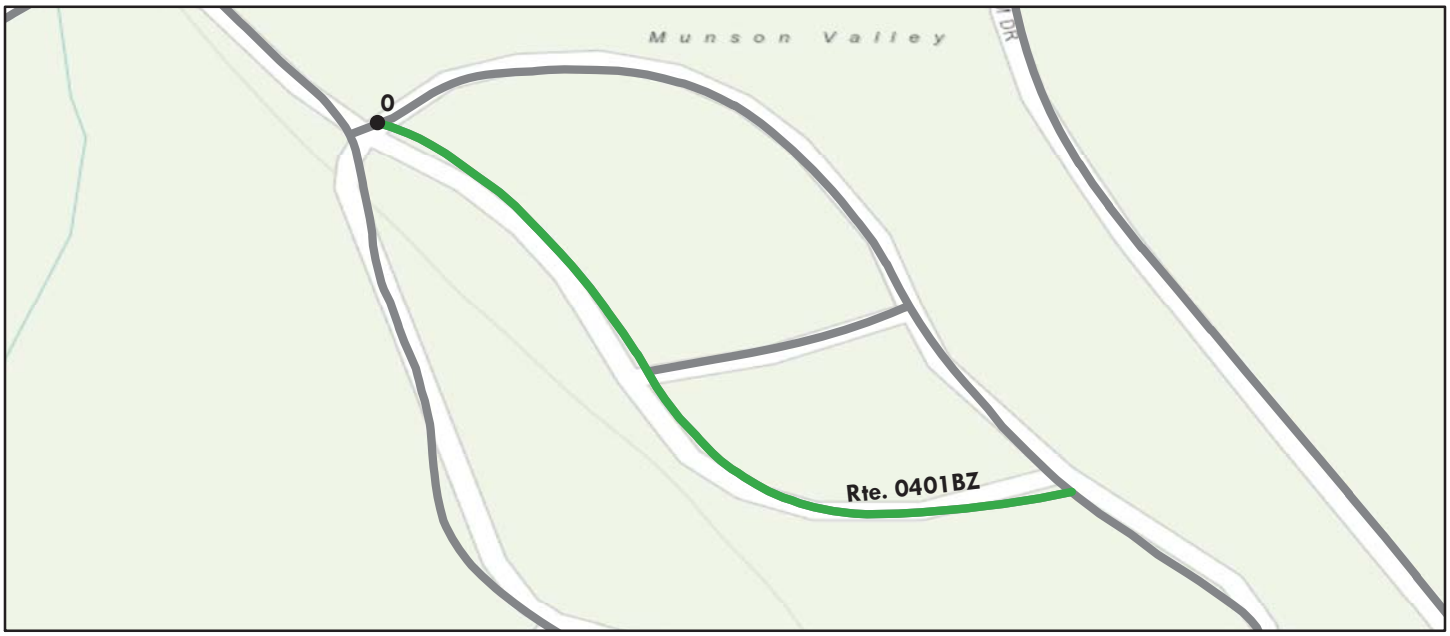
Inspection Date: 7/31/2015	**Beginning Section MP**	0				
Paved Length (Miles): 0.48	**Section Length (MI)**	0.48				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	96	96				
Surface Condition Rating (SCR)	96	96				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	99	99				
Alligator Crack Index	100	100				
Longitudinal Crack Index	99	99				
Transverse Cracking Index	98	98				
Patching Index	100	100				
Rutting Index	96	96				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	22	22				
Lane Width (ft)	11	11				

Crater Lake National Park

ROUTE 0401BZ: HEADQUARTERS RESIDENCE AREA INNER LOOP ROAD

Subcomponent of Route CRLA-0401ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

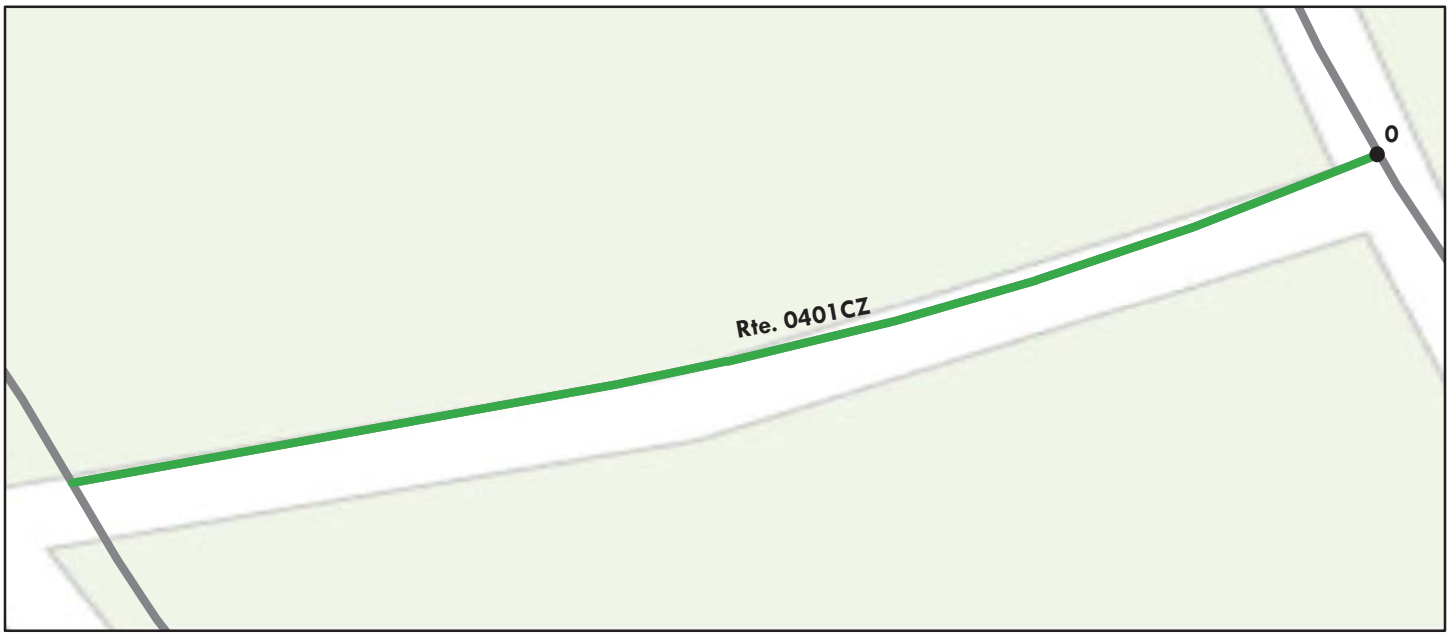
Inspection Date: 7/31/2015	**Beginning Section MP**	0				
Paved Length (Miles): 0.14	**Section Length (MI)**	0.14				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	93	93				
Surface Condition Rating (SCR)	93	93				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	99	99				
Alligator Crack Index	100	100				
Longitudinal Crack Index	99	99				
Transverse Cracking Index	99	99				
Patching Index	99	99				
Rutting Index	93	93				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	16.6	16.6				
Lane Width (ft)	8.3	8.3				

Crater Lake National Park

ROUTE 0401CZ: HEADQUARTERS RESIDENCE AREA CUT THROUGH ROAD

Subcomponent of Route CRLA-0401ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

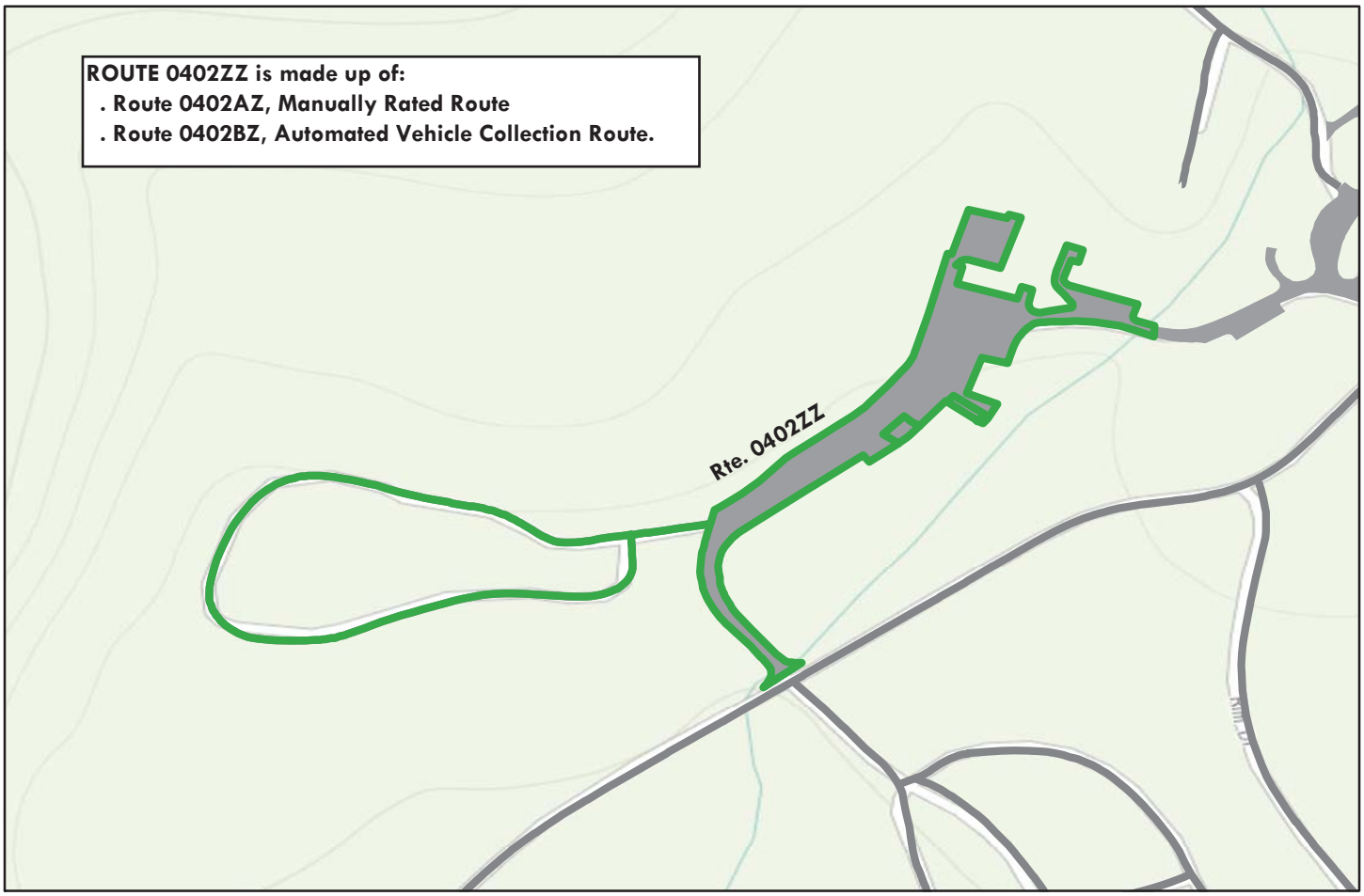
See Appendix for definitions and formulas

Inspection Date: 7/31/2015	**Beginning Section MP**	0				
Paved Length (Miles): 0.04	**Section Length (MI)**	0.04				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	92	92				
Surface Condition Rating (SCR)	92	92				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	100	100				
Patching Index	100	100				
Rutting Index	92	92				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	17.1	17.1				
Lane Width (ft)	8.5	8.5				

Crater Lake National Park

ROUTE 0402ZZ: HEADQUARTERS MAINTENANCE AND PARKING AREAS

Summary Route



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Note: The weighted average summary PCR value is calculated from only the sections of road where the PCR was collected. The overall PCR for the summary route may not reflect individual subcomponent ratings.

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

Inspection Date: 7/31/2015	
Paved Length (Miles): 0.33	
Surface Type: ASPHALT	**Route Summary**
Roadway Condition Information	
Pavement Condition Rating (PCR)	91
Lane & Width Information	
Number of Lanes	2
Paved Width (ft)	18.2
Lane Width (ft)	9.1

Crater Lake National Park

ROUTE 0402AZ: HEADQUARTERS MAINTENANCE AREA

Subcomponent of Route CRLA-0402ZZ
Manual Rating

FROM ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 3.73 ON LEFT

TO ROUTE 0402BZ (HEADQUARTERS RESIDENCE AREA)

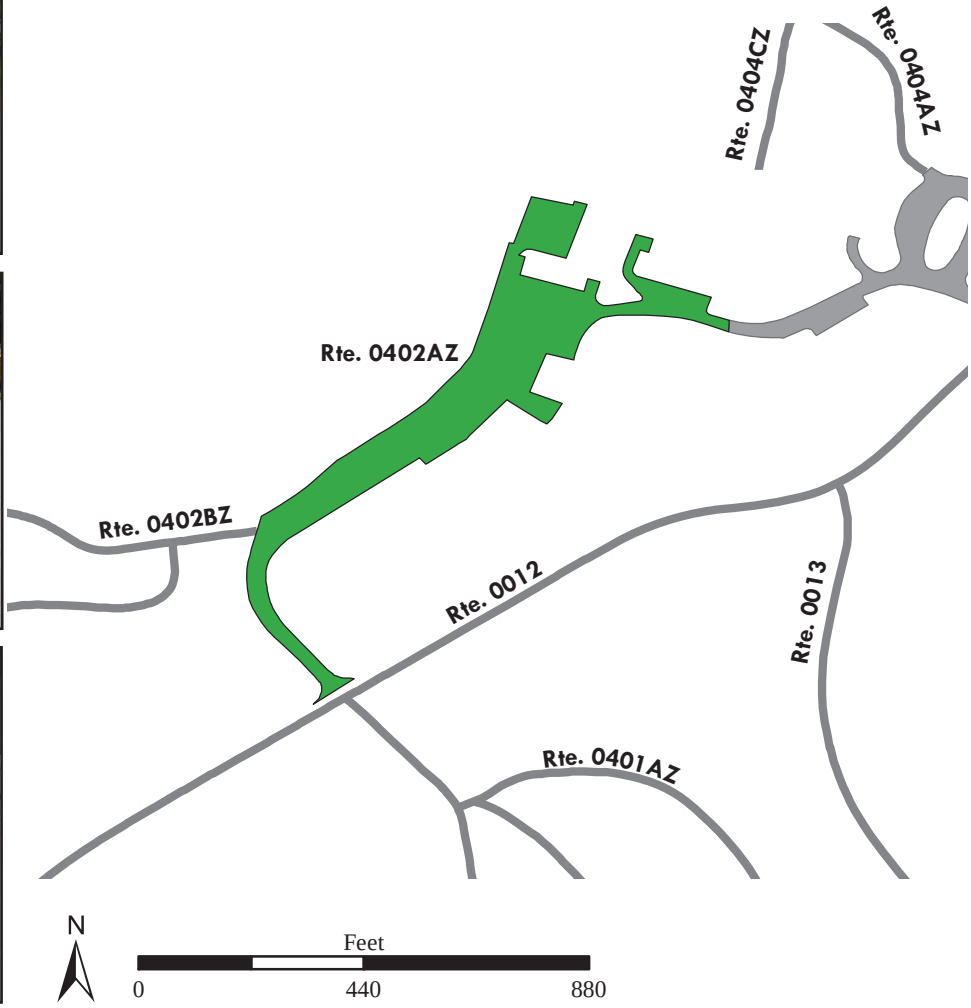
Inspection Date	FMSS Number	User Access	Surface Type
6/11/2015	75141	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Pavement Recommendation**	
92,626	1.595	PREVENTIVE MAINTENANCE	
Condition Rating / PCR			
GOOD / 90			

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

Parking area consists of multiple surface types: 1 part Asphalt at 90,088 square feet; 2 parts Concrete at 2,538 square feet.

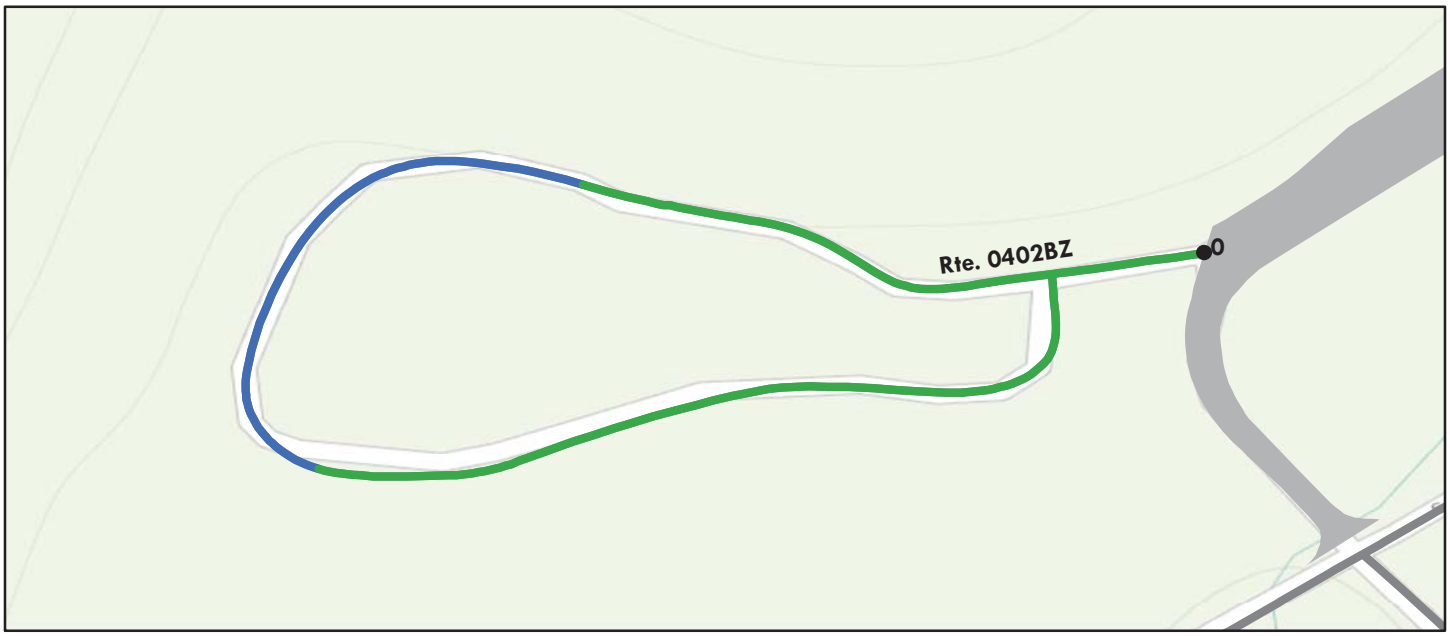


Crater Lake National Park

ROUTE 0402BZ: HEADQUARTERS RESIDENCE AREA

Subcomponent of Route CRLA-0402ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

Inspection Date: 7/31/2015	**Beginning Section MP**	0				
Paved Length (Miles): 0.33	**Section Length (MI)**	0.33				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	92	92				
Surface Condition Rating (SCR)	92	92				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	95	95				
Alligator Crack Index	100	100				
Longitudinal Crack Index	95	95				
Transverse Cracking Index	92	92				
Patching Index	100	100				
Rutting Index	97	97				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	18.2	18.2				
Lane Width (ft)	9.1	9.1				

Crater Lake National Park

ROUTE 0403: CRATER LAKE LODGE RESIDENCE ROAD

Data Collection Vehicle (DCV) Rating

Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

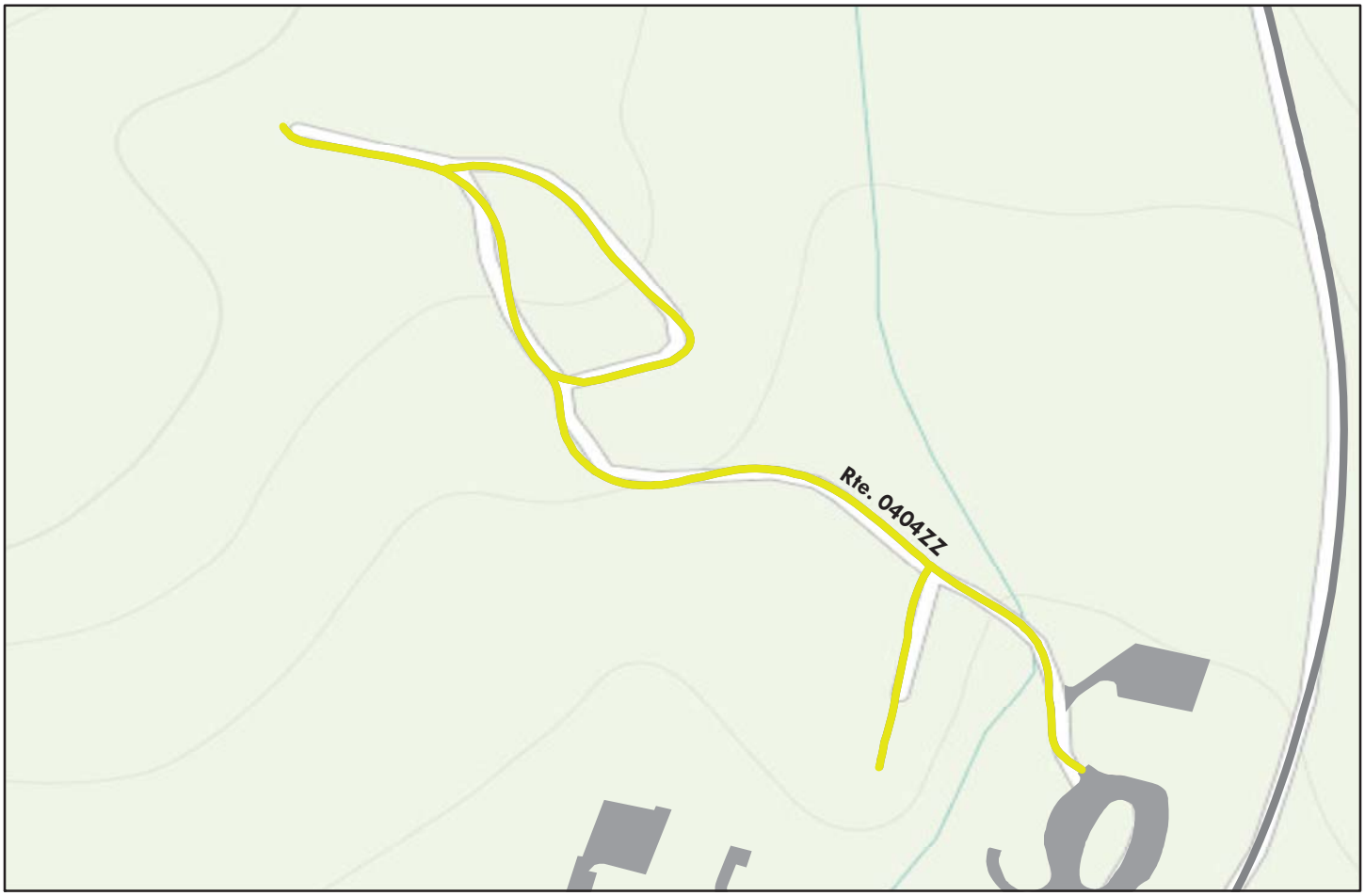
See Appendix for definitions and formulas

Inspection Date:	7/31/2015	**Beginning Section MP**	0				
Paved Length (Miles):	0.12	**Section Length (MI)**	0.12				
Surface Type:	ASPHALT	**Route Summary**					
Roadway Condition Information							
Pavement Condition Rating (PCR)		89	89				
Surface Condition Rating (SCR)		89	89				
Roughness Condition Index (RCI)		N/A	N/A				
Distress Index Values							
Structural Crack Index		89	89				
Alligator Crack Index		100	100				
Longitudinal Crack Index		89	89				
Transverse Cracking Index		92	92				
Patching Index		100	100				
Rutting Index		97	97				
International Roughness Index (IRI)		N/A	N/A				
Lane & Width Information							
Number of Lanes		2	2				
Paved Width (ft)		14.6	14.6				
Lane Width (ft)		7.3	7.3				

Crater Lake National Park

ROUTE 0404ZZ: HEADQUARTERS RESIDENCE ROADS

Summary Route



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Note: The weighted average summary PCR value is calculated from only the sections of road where the PCR was collected. The overall PCR for the summary route may not reflect individual subcomponent ratings.

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

Inspection Date:	7/31/2015
Paved Length (Miles):	0.48
Surface Type:	ASPHALT
Roadway Condition Information	
Pavement Condition Rating (PCR)	63
Lane & Width Information	
Number of Lanes	1
Paved Width (ft)	15.4
Lane Width (ft)	11.6

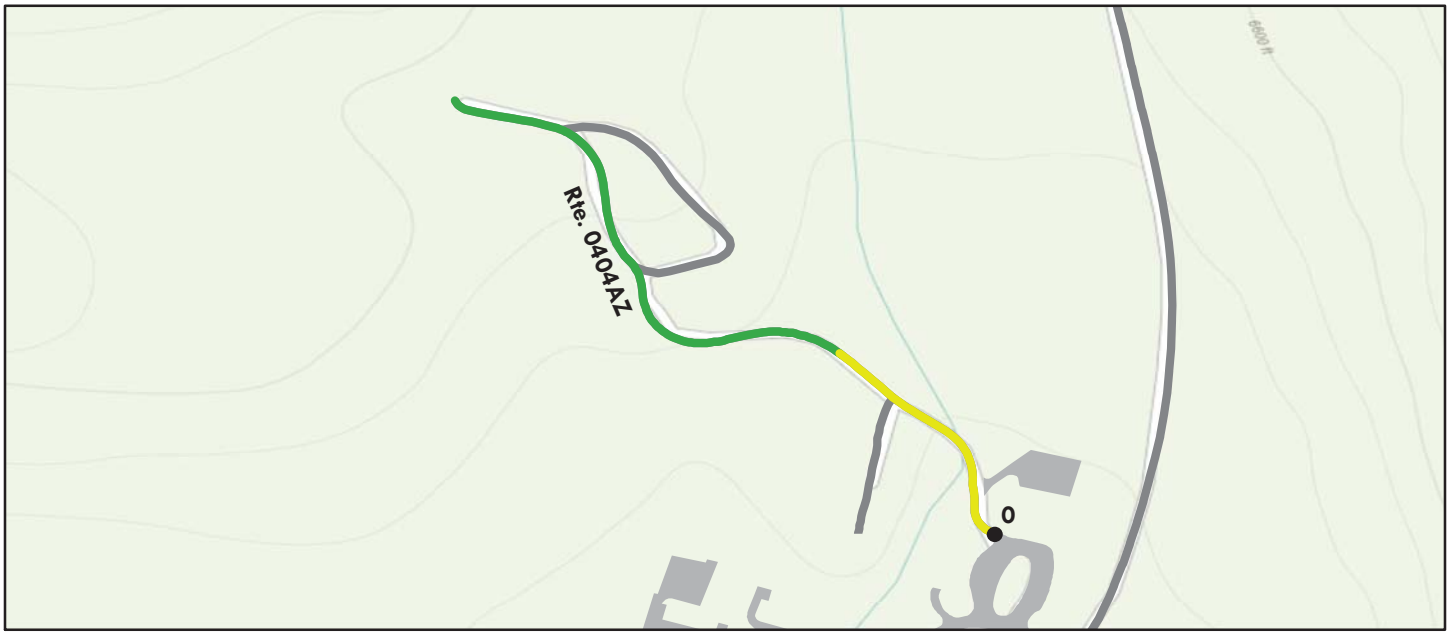
Route Summary

Crater Lake National Park

ROUTE 0404AZ: HEADQUARTERS RESIDENCE ROAD

Subcomponent of Route CRLA-0404ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

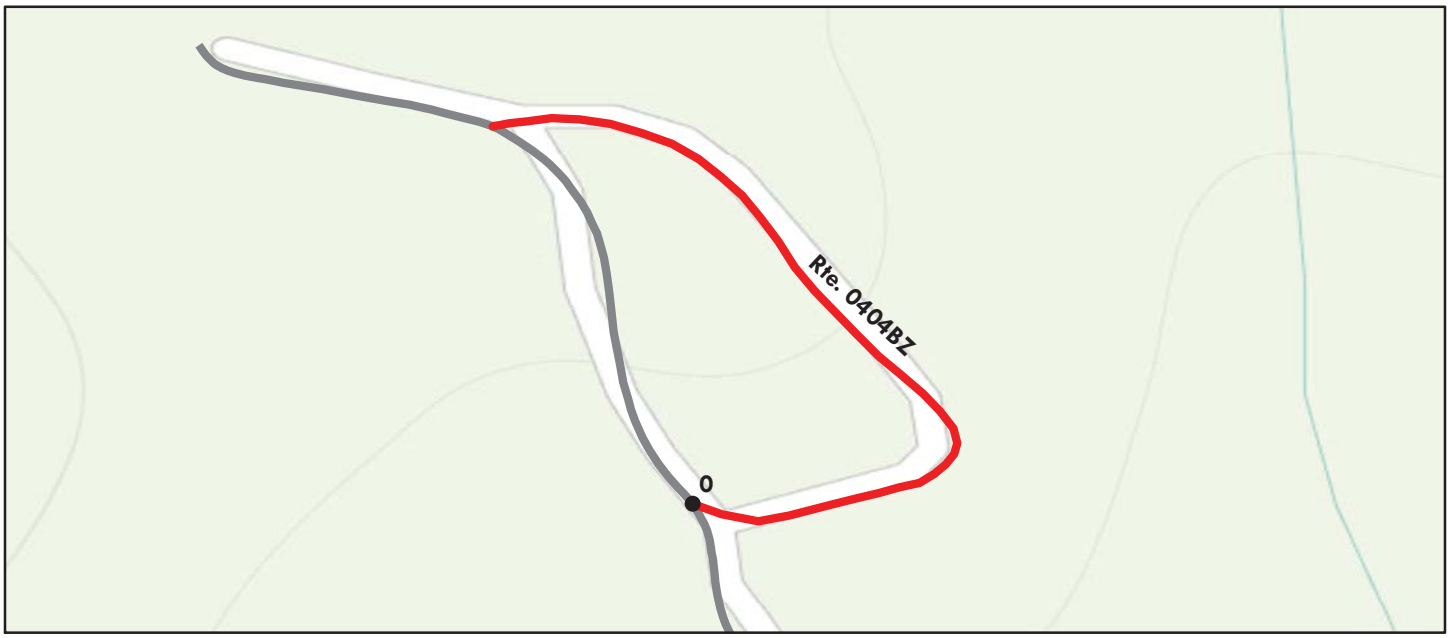
Inspection Date: 7/31/2015	**Beginning Section MP**	0				
Paved Length (Miles): 0.3	**Section Length (MI)**	0.3				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	89	89				
Surface Condition Rating (SCR)	89	89				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	89	89				
Alligator Crack Index	100	100				
Longitudinal Crack Index	89	89				
Transverse Cracking Index	97	97				
Patching Index	99	99				
Rutting Index	94	94				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	14	14				
Lane Width (ft)	9.7	9.7				

Crater Lake National Park

ROUTE 0404BZ: HEADQUARTERS RESIDENCE LOOP

Subcomponent of Route CRLA-0404ZZ

Manual Rating



Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

Inspection Date: 6/11/2015	**Beginning Section MP**	0.00					
Paved Length (Miles): 0.12	**Section Length (MI)**	0.12					
Surface Type: ASPHALT	**Route Summary**						
Roadway Condition Information							
Pavement Condition Rating (PCR)	0	0					
Surface Condition Rating (SCR)	0	0					
Roughness Condition Index (RCI)	N/A	N/A					
Distress Index Values							
Structural Crack Index	N/A	N/A					
Alligator Crack Index	N/A	N/A					
Longitudinal Crack Index	N/A	N/A					
Transverse Cracking Index	N/A	N/A					
Patching Index	N/A	N/A					
Rutting Index	N/A	N/A					
International Roughness Index (IRI)	N/A	N/A					
Lane & Width Information							
Number of Lanes	1	1					
Paved Width (ft)	18	18					
Lane Width (ft)	18	18					

Route was given a Pavement Condition Rating (PCR) of 0 because it is in very poor condition. Individual distress indices could not be determined because of the excessive distress quantity and missing sections of pavement.

Crater Lake National Park

ROUTE 0404BZ: HEADQUARTERS RESIDENCE LOOP

Condition Photos

Condition photos are shown only for manually rated roads. Use the PathView program to see images of DCV rated roads.

CRLA_0404BZ_1721.JPG

CRLA_0404BZ_1722.JPG

CRLA_0404BZ_1724.JPG

CRLA_0404BZ_1725.JPG

CRLA_0404BZ_1727.JPG

CRLA_0404BZ_1729.JPG

Crater Lake National Park

ROUTE 0404CZ: HEADQUARTERS RESIDENCE STREET

Subcomponent of Route CRLA-0404ZZ

Manual Rating

Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

Inspection Date: 6/11/2015	**Beginning Section MP**	0.00				
Paved Length (Miles): 0.06	**Section Length (MI)**	0.06				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	90	90				
Surface Condition Rating (SCR)	90	90				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	N/A	N/A				
Alligator Crack Index	97	97				
Longitudinal Crack Index	97	97				
Transverse Cracking Index	90	90				
Patching Index	97	97				
Rutting Index	97	97				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	2				
Paved Width (ft)	17	17				
Lane Width (ft)	8.5	8.5				

Crater Lake National Park

ROUTE 0404CZ: HEADQUARTERS RESIDENCE STREET

Condition Photos

Condition photos are shown only for manually rated roads. Use the PathView program to see images of DCV rated roads.

CRLA_0404CZ_1730.JPG

CRLA_0404CZ_1731.JPG

CRLA_0404CZ_1732.JPG

CRLA_0404CZ_1733.JPG

CRLA_0404CZ_1734.JPG

CRLA_0404CZ_1735.JPG

Section 6
Paved Parking Area Condition Rating Sheets

Crater Lake National Park

Federal Lands Highway
Road Inventory Program

Crater Lake National Park

ROUTE 0900: DISCOVERY POINT

Manual Rating

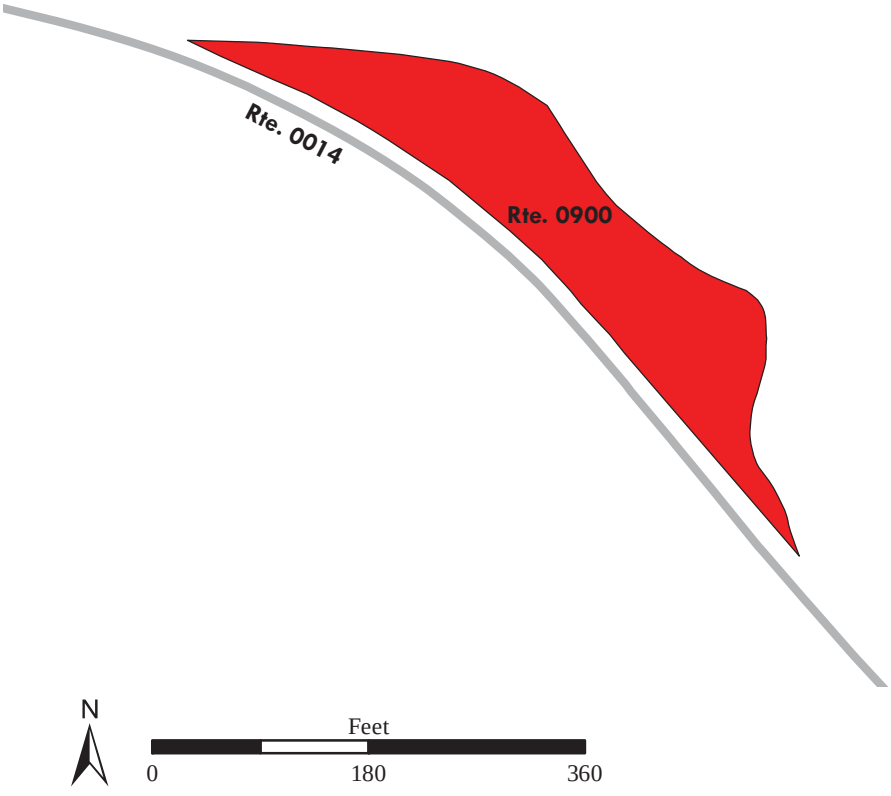
ADJACENT TO ROUTE 0014 (WEST RIM DRIVE) AT MP 1.10 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	75343	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
32,497	0.56	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
HEAVY 3R TREATMENTS		POOR / 53	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0902: DISCOVERY POINT PICNIC AREA

Manual Rating

FROM ROUTE 0014 (WEST RIM DRIVE) AT MP 2.39 ON RIGHT

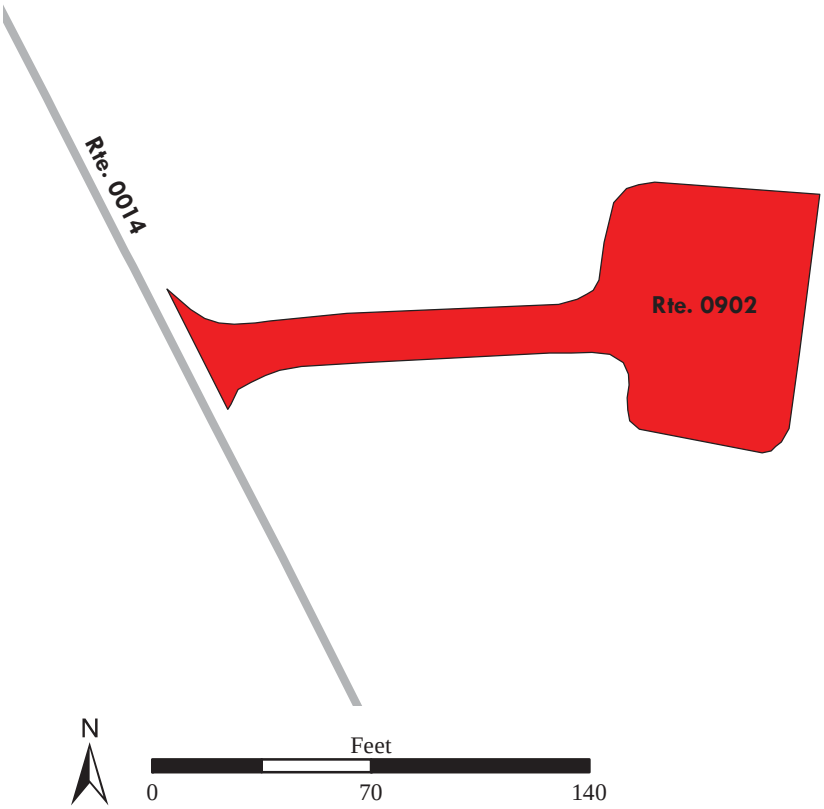
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	75353	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
5,285	0.091	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
HEAVY 3R TREATMENTS		POOR / 53	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0903: UNION PEAK OVERLOOK

Manual Rating

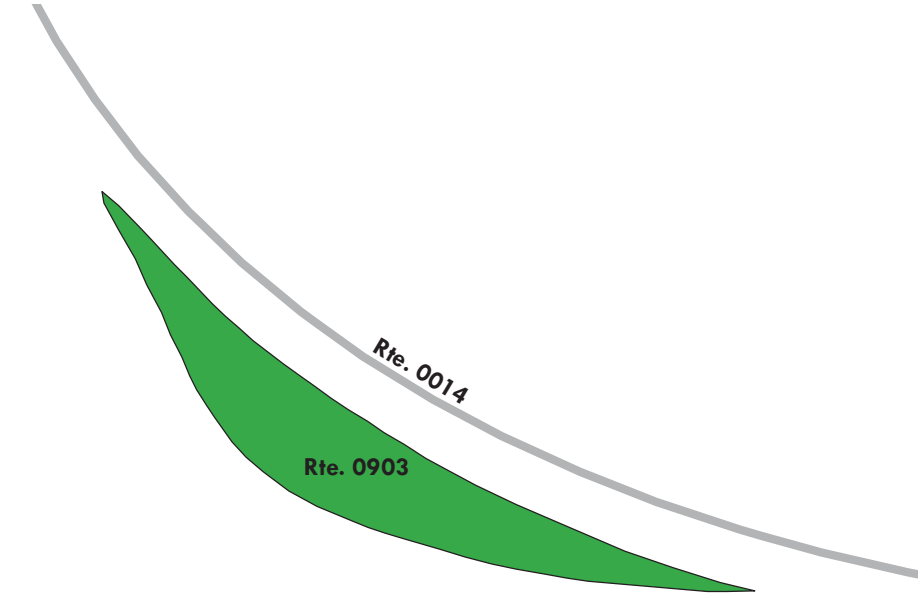
ADJACENT TO ROUTE 0014 (WEST RIM DRIVE) AT MP 3.00 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	75354	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
5,236	0.09	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0904: WATCHMAN OVERLOOK PARKING

Manual Rating

FROM ROUTE 0014 (WEST RIM DRIVE) AT MP 3.76 ON RIGHT

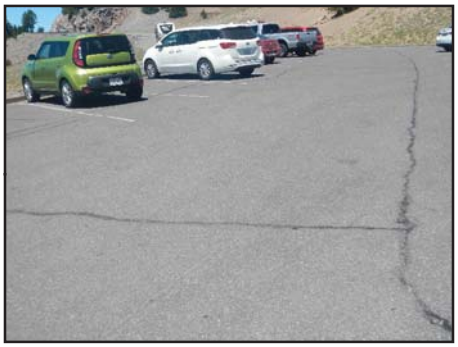
TO ROUTE 0014 (WEST RIM DRIVE) AT MP 3.81 ON RIGHT

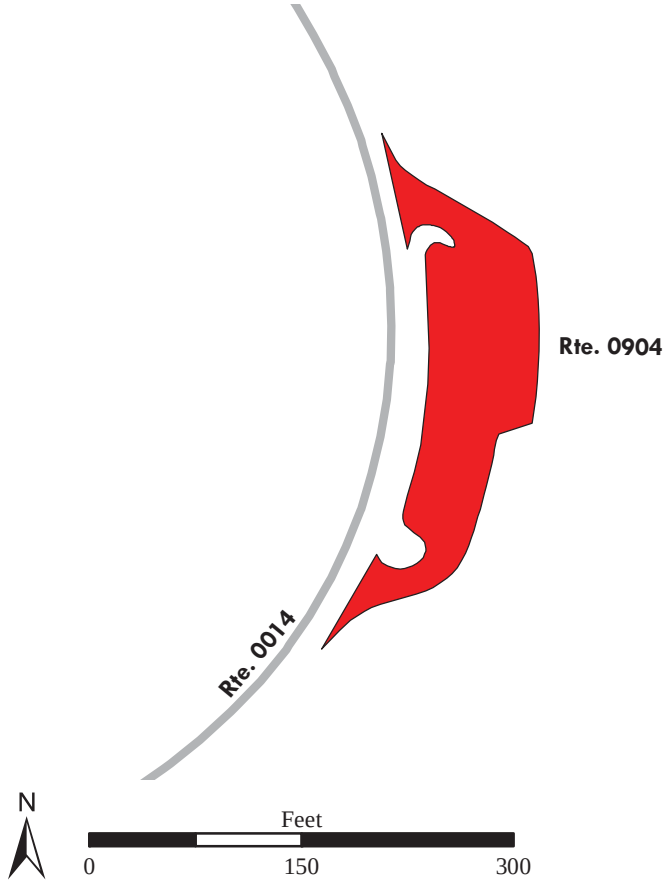
Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	75355	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
13,637	0.235	NOT APPLICABLE	MODERATE REPAIR
Curb Type		**Curb & Gutter Type**	
NO CURB		CONCRETE	
Pavement Recommendation		**Condition Rating / PCR**	
HEAVY 3R TREATMENTS		POOR / 53	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas





Crater Lake National Park

ROUTE 0905: DIAMOND LAKE OVERLOOK

Manual Rating

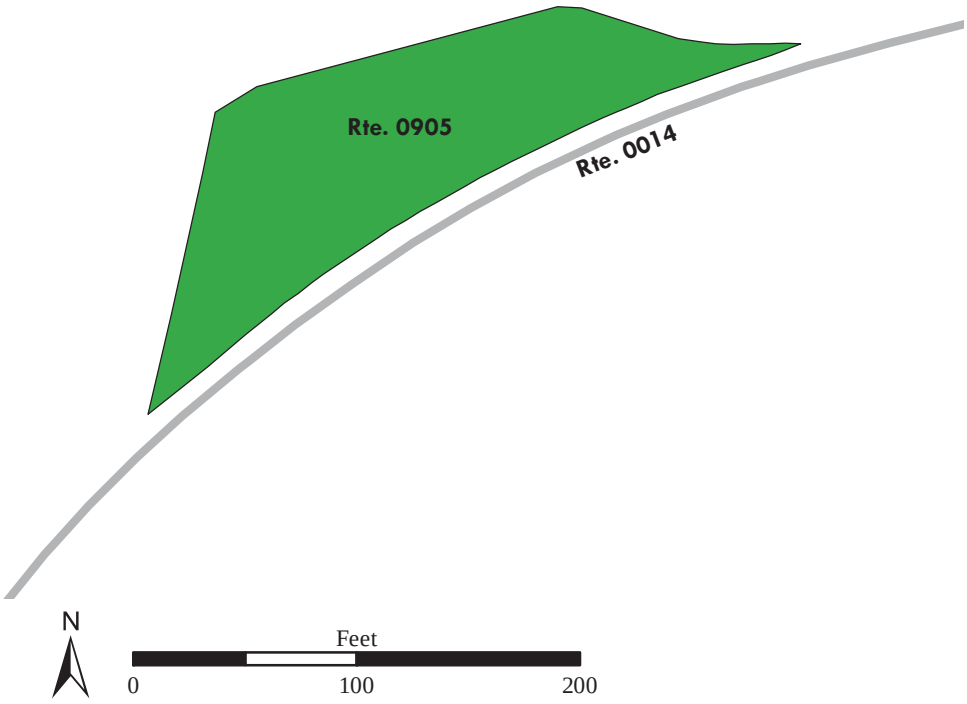
ADJACENT TO ROUTE 0014 (WEST RIM DRIVE) AT MP 4.46 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	75359	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
12,553	0.216	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60) | **Fair (61- 84)** | **Good (85 - 94)** | **Excellent (95 - 100)** | **Not Rated**

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0906: GLACIAL VALLEYS

Manual Rating

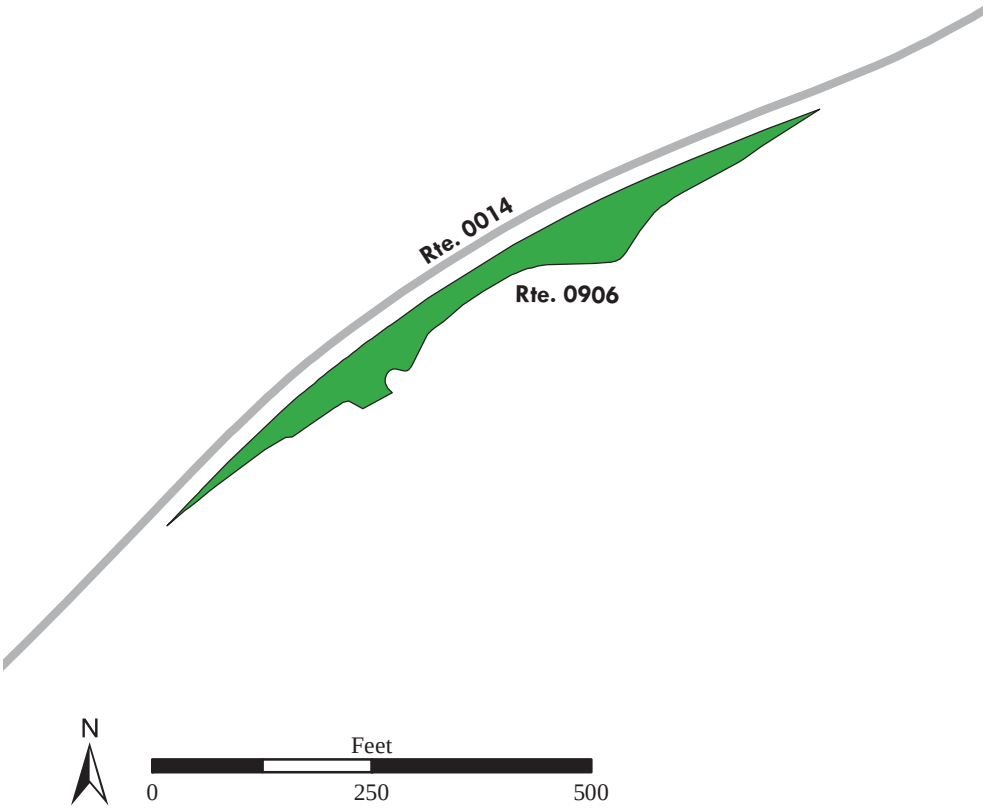
ADJACENT TO ROUTE 0014 (WEST RIM DRIVE) AT MP 5.70 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	75361	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
20,209	0.348	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0907: NORTH JUNCTION PARKING

Manual Rating

FROM ROUTE 0014 (WEST RIM DRIVE) AT MP 5.86 ON RIGHT

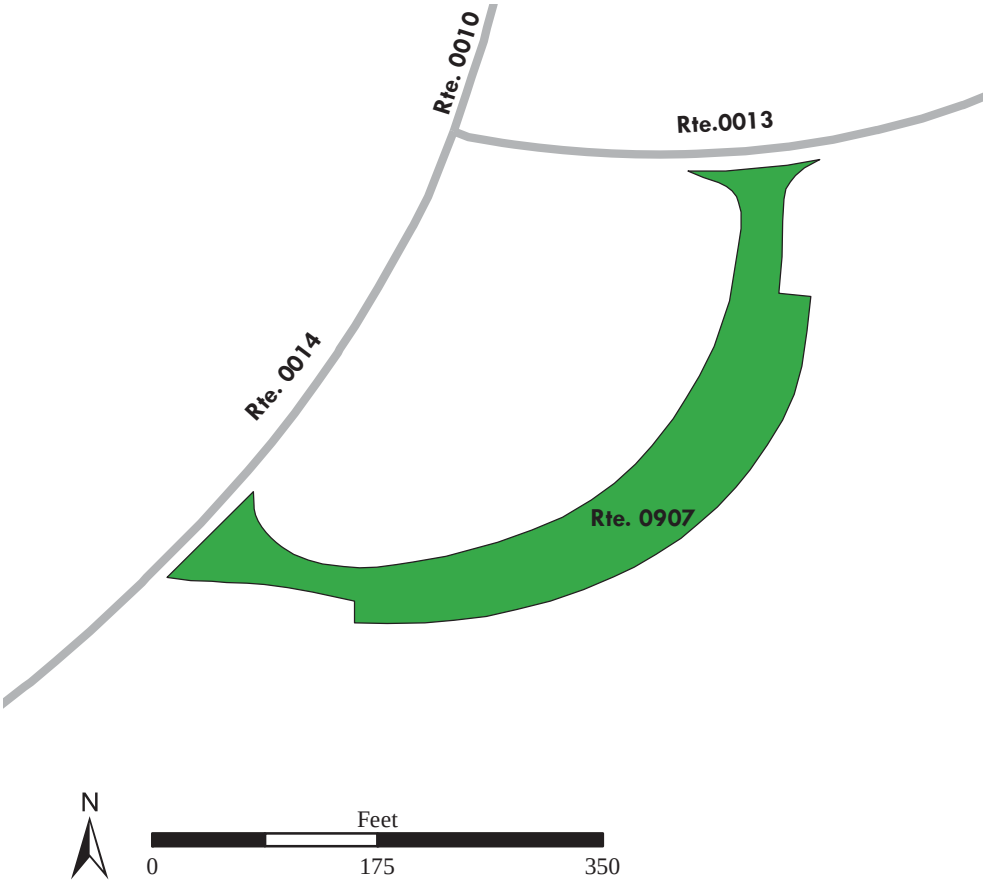
TO ROUTE 0013 (EAST RIM DRIVE) AT MP 0.03 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	75363	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
26,047	0.448	6	LIGHT REPAIR
Curb Type		**Curb & Gutter Type**	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0909: PUMICE DESERT

Manual Rating

FROM ROUTE 0010 (NORTH ENTRANCE ROAD) AT MP 4.89 ON LEFT

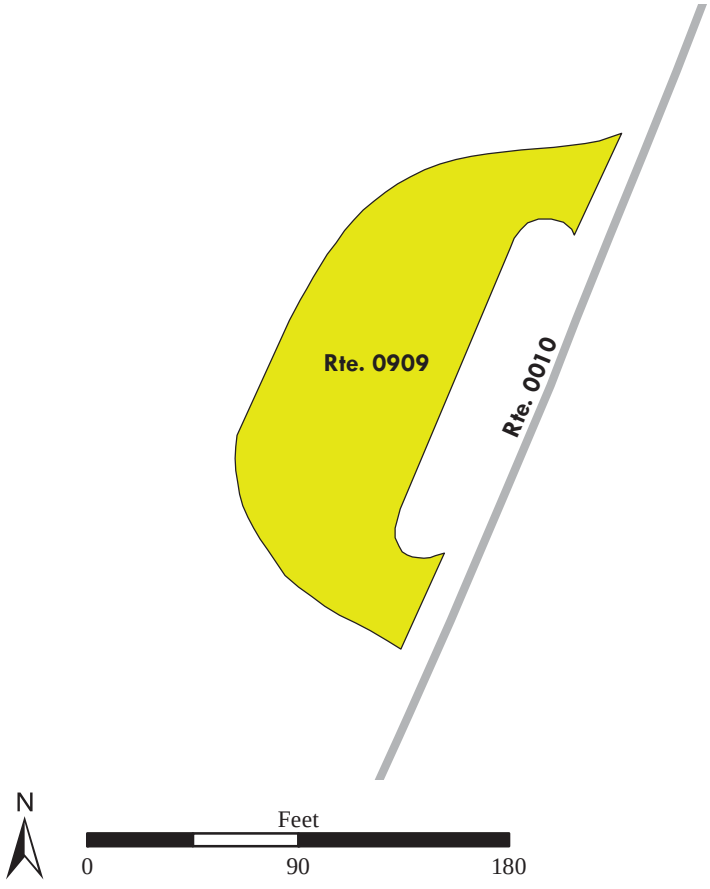
TO ROUTE 0010 (NORTH ENTRANCE ROAD) AT MP 4.92 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	75367	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
11,094	0.191	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
LIGHT 3R TREATMENTS		FAIR / 73	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60) | **Fair (61- 84)** | **Good (85 - 94)** | **Excellent (95 - 100)** | **Not Rated**

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0910: PACIFIC CREST TRAIL PULLOUT

Manual Rating

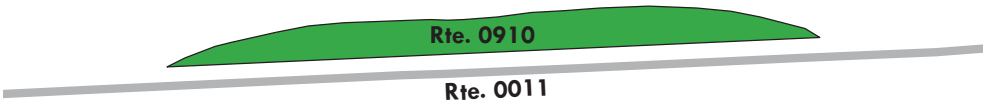
ADJACENT TO ROUTE 0011 (CRATER LAKE HIGHWAY) AT MP 6.90 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	75369	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
2,338	0.04	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0912: MAZAMA DORM, BUILDING A, REAR PARKING

Manual Rating

FROM ROUTE 0400 (MAZAMA DORMITORIES ACCESS) AT MP 0.16 ON LEFT

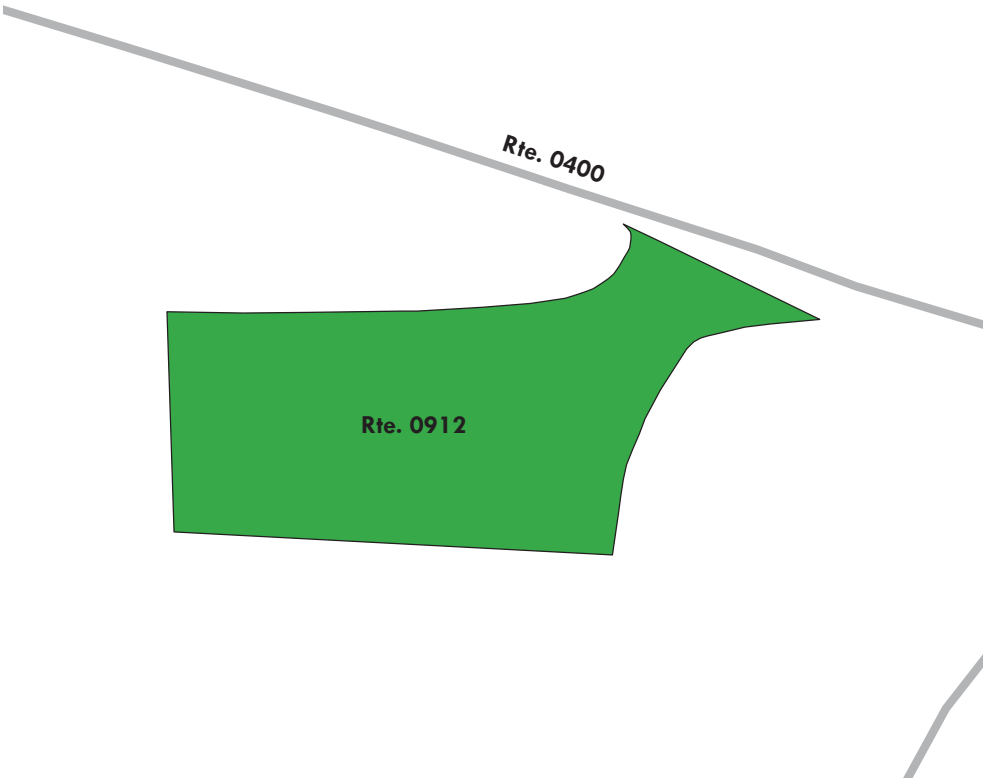
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
6/11/2015	78343	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
10,513	0.181	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0913: MAZAMA DORM EMPLOYEE PARKING AND RV

Manual Rating

FROM ROUTE 0400 (MAZAMA DORMITORIES ACCESS) AT MP 0.38 ON RIGHT

TO ROUTE 0400 (MAZAMA DORMITORIES ACCESS) AT MP 0.40 ON RIGHT

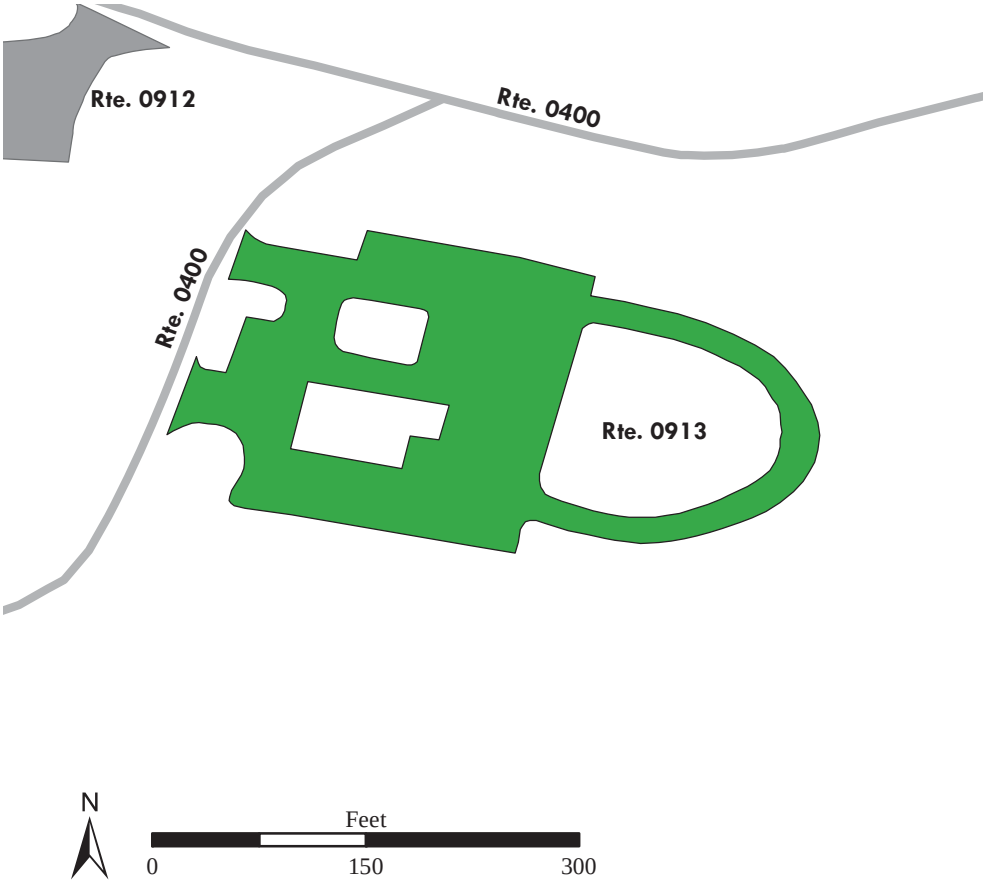
Inspection Date	FMSS Number	User Access	Surface Type
6/11/2015	78347	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
34,631	0.596	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

Parking area consists of multiple surface types: 1 part Asphalt at 34,349 square feet; 1 part Concrete at 282 square feet.



Crater Lake National Park

ROUTE 0914: FOSSIL FUMAROLES - GODFREY GLEN OVERLOOK

Manual Rating

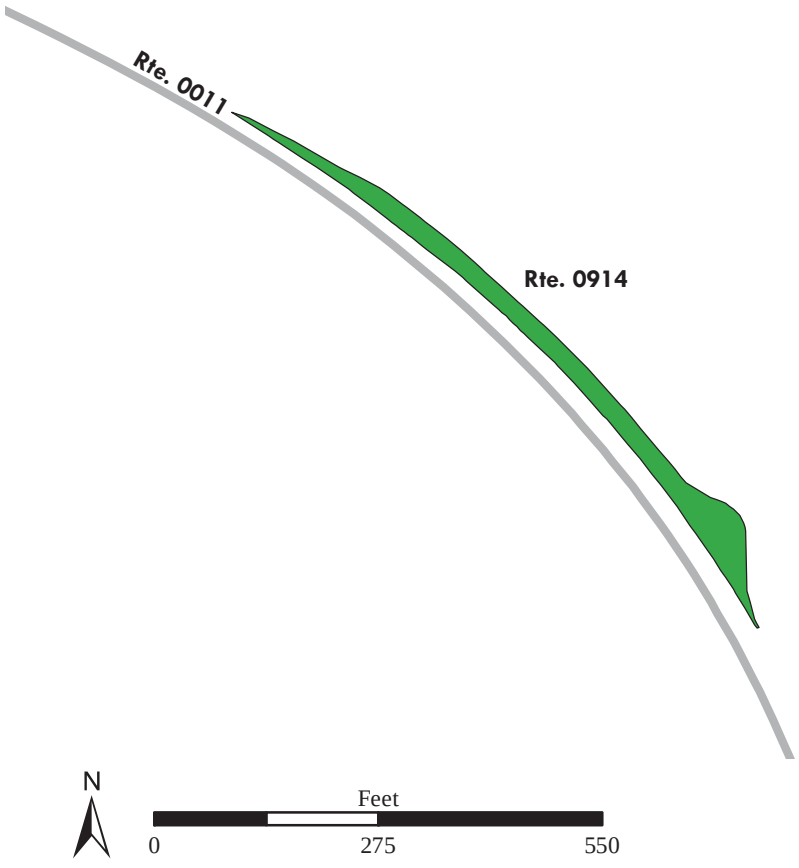
ADJACENT TO ROUTE 0011 (CRATER LAKE HIGHWAY) AT MP 8.77 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
6/11/2015	75373	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
15,880	0.273	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0915: LODGE POLE PICNIC AREA

Manual Rating

FROM ROUTE 0011 (CRATER LAKE HIGHWAY) AT MP 10.18 ON LEFT

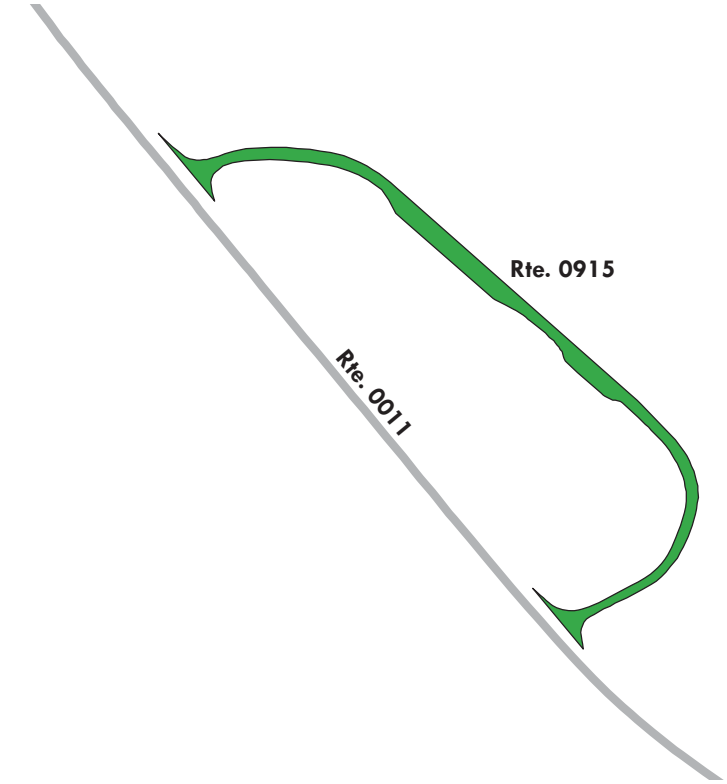
TO ROUTE 0011 (CRATER LAKE HIGHWAY) AT MP 10.40 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
6/11/2015	75376	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
42,082	0.725	7	DO NOTHING
Curb Type		**Curb & Gutter Type**	
ASPHALT		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0916: ANNIE FALLS PICNIC AREA

Manual Rating

FROM ROUTE 0011 (CRATER LAKE HIGHWAY) AT MP 12.40 ON LEFT

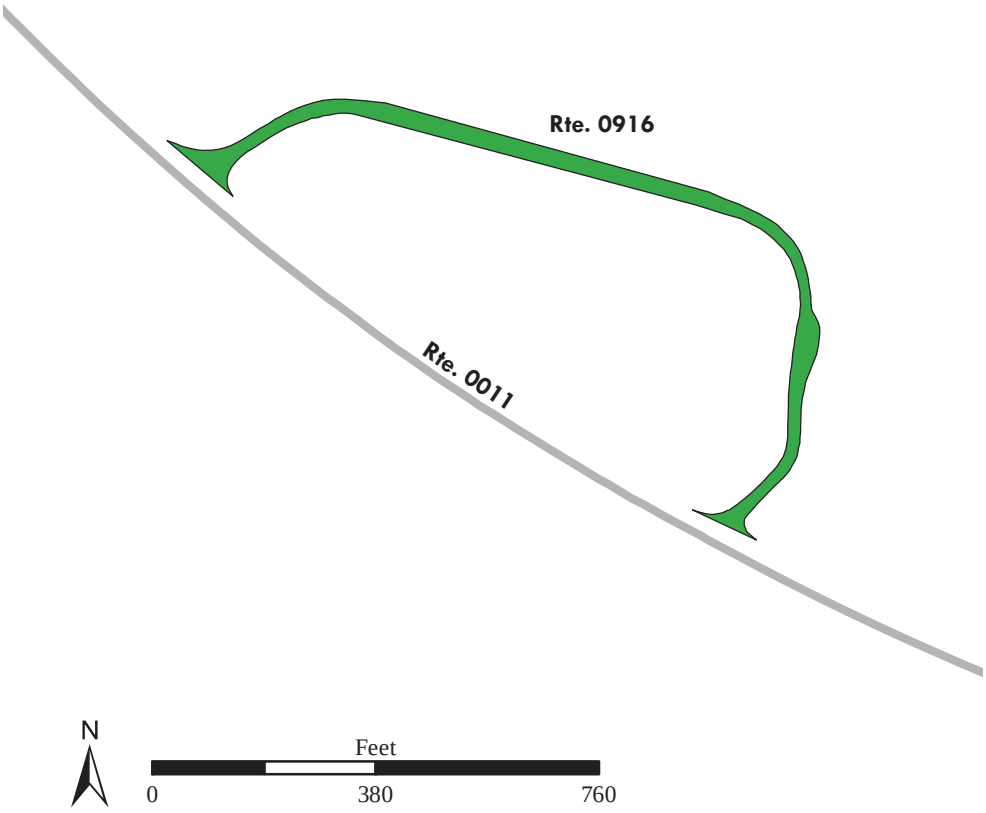
TO ROUTE 0011 (CRATER LAKE HIGHWAY) AT MP 12.57 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
6/11/2015	75378	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
33,111	0.57	7	DO NOTHING
Curb Type		**Curb & Gutter Type**	
ASPHALT		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0917: NO NAME PICNIC AREA

Manual Rating

FROM ROUTE 0011 (CRATER LAKE HIGHWAY) AT MP 13.23 ON LEFT

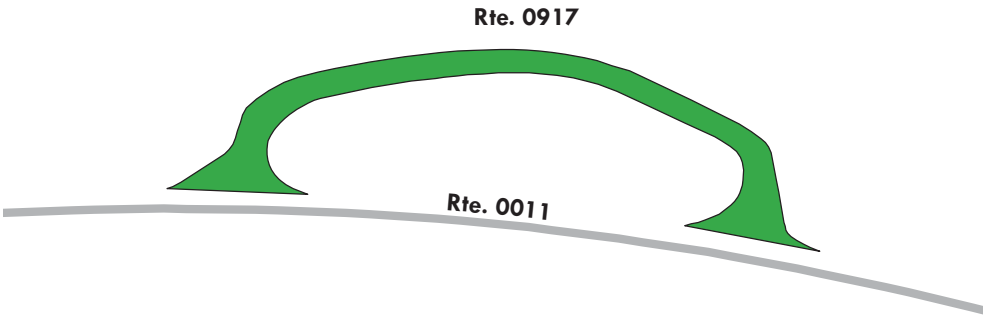
TO ROUTE 0011 (CRATER LAKE HIGHWAY) AT MP 13.29 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
6/11/2015	78383	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
9,728	0.167	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0918: PONDEROSA PICNIC AREA

Manual Rating

FROM ROUTE 0011 (CRATER LAKE HIGHWAY) AT MP 16.79 ON LEFT

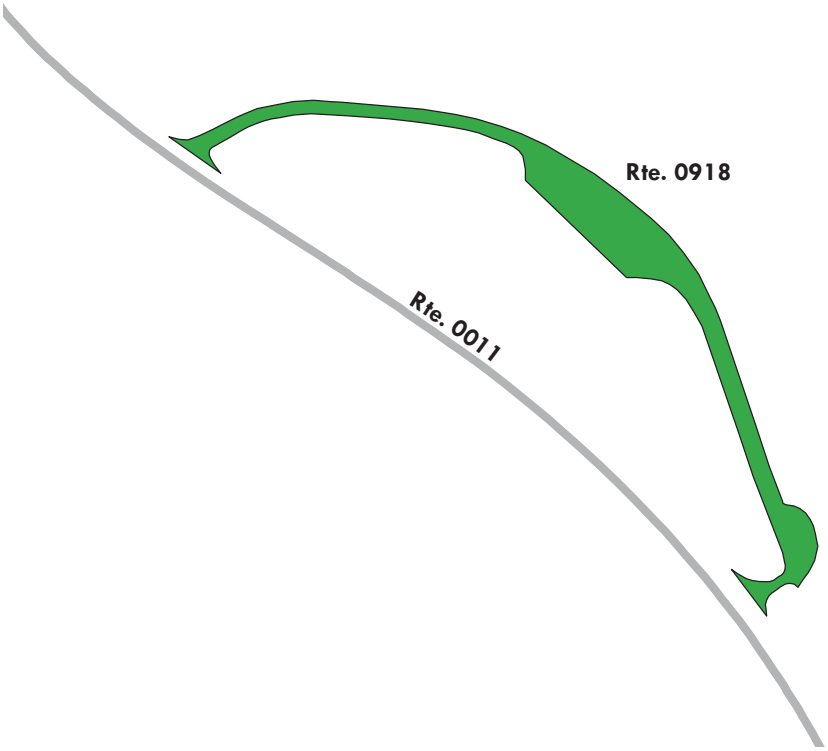
TO ROUTE 0011 (CRATER LAKE HIGHWAY) AT MP 17.02 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
6/11/2015	75380	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
68,175	1.174	NOT APPLICABLE	DO NOTHING
Curb Type		**Curb & Gutter Type**	
NO CURB		CONCRETE	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0919: GOODBYE PICNIC AREA

Manual Rating

FROM ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 1.30 ON LEFT

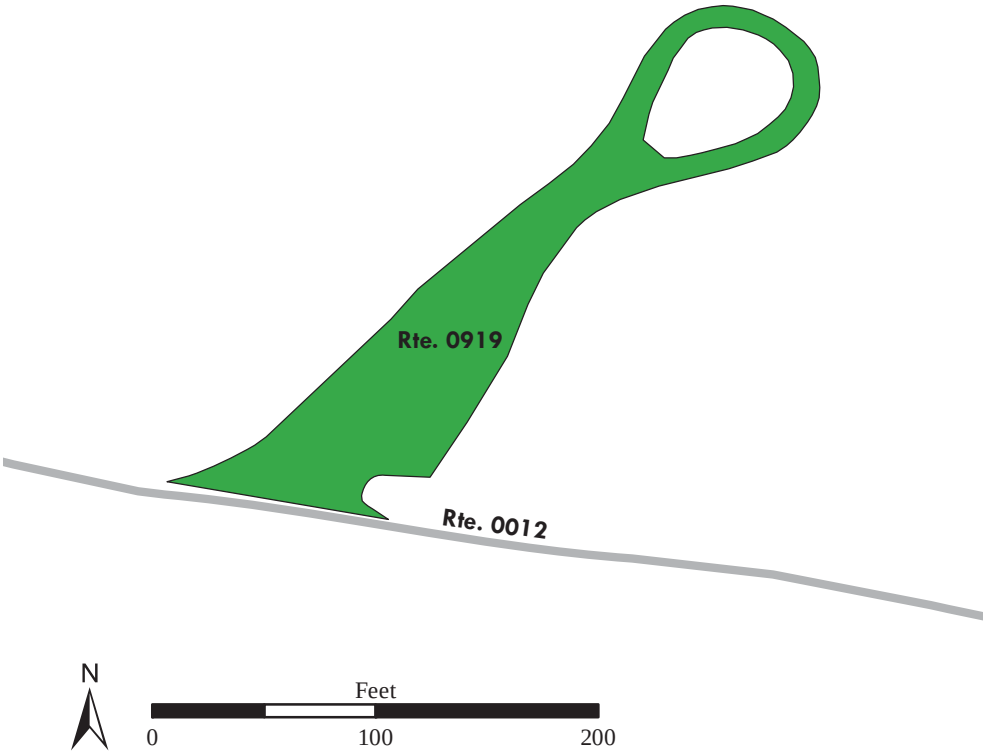
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
6/11/2015	75383	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
9,084	0.156	5	DO NOTHING
Curb Type		**Curb & Gutter Type**	
ASPHALT		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60) | **Fair (61- 84)** | **Good (85 - 94)** | **Excellent (95 - 100)** | **Not Rated**

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0920: GODFREY GLEN TRAIL PARKING

Manual Rating

FROM ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 1.67 ON RIGHT

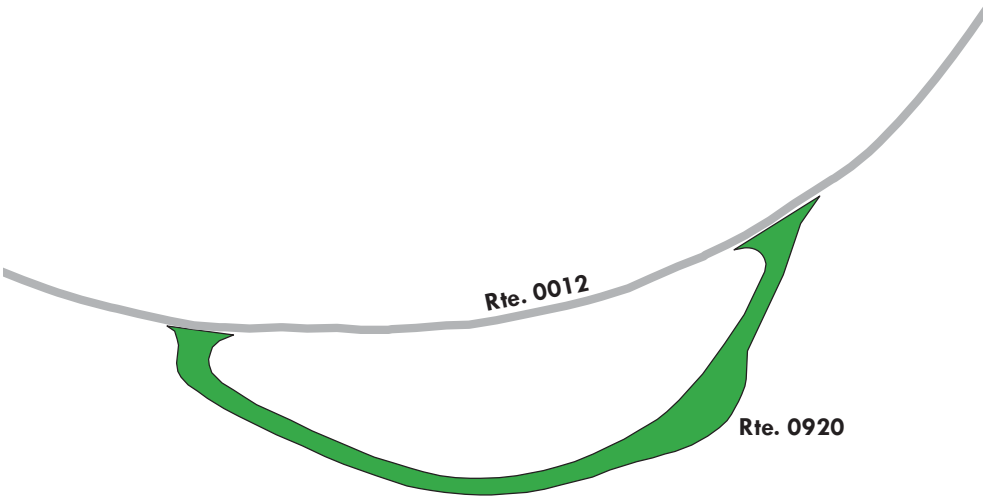
TO ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 1.78 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/11/2015	75386	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
23,915	0.412	6	DO NOTHING
Curb Type		**Curb & Gutter Type**	
ASPHALT		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0921: HEADQUARTERS VISITOR CENTER PARKING

Manual Rating

FROM ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 3.98 ON LEFT

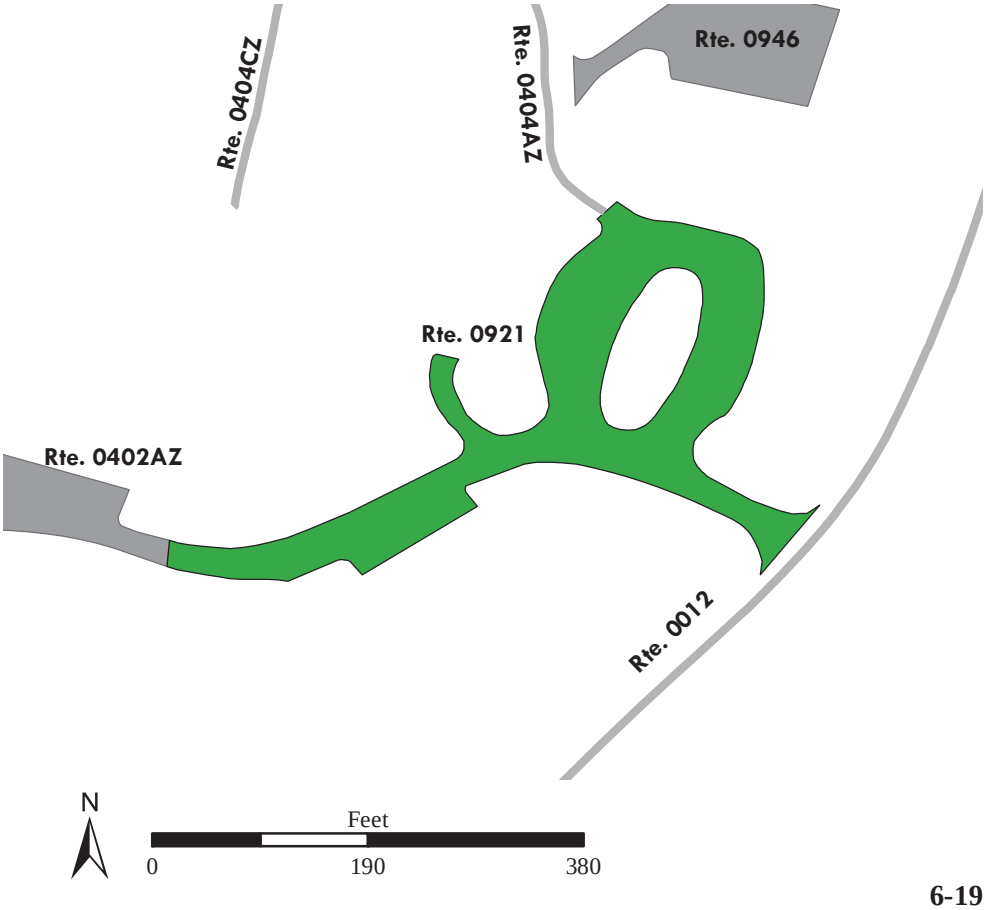
TO ROUTE 0404ZZ (HEADQUARTERS RESIDENCE ROADS) AND
ROUTE 0402ZZ (HEADQUARTERS MAINTENANCE AND PARKING AREAS)

Inspection Date	FMSS Number	User Access	Surface Type
6/11/2015	75388	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
34,338	0.591	8	DO NOTHING
Curb Type		**Curb & Gutter Type**	
STONE		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0922ZZ: CAFETERIA AND GIFT SHOP PARKING AREAS

Summary Route
Manual Rating

FROM ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 6.85 ON RIGHT AND LEFT

TO ROUTE 0012 (MUNSON VALLEY ROAD)

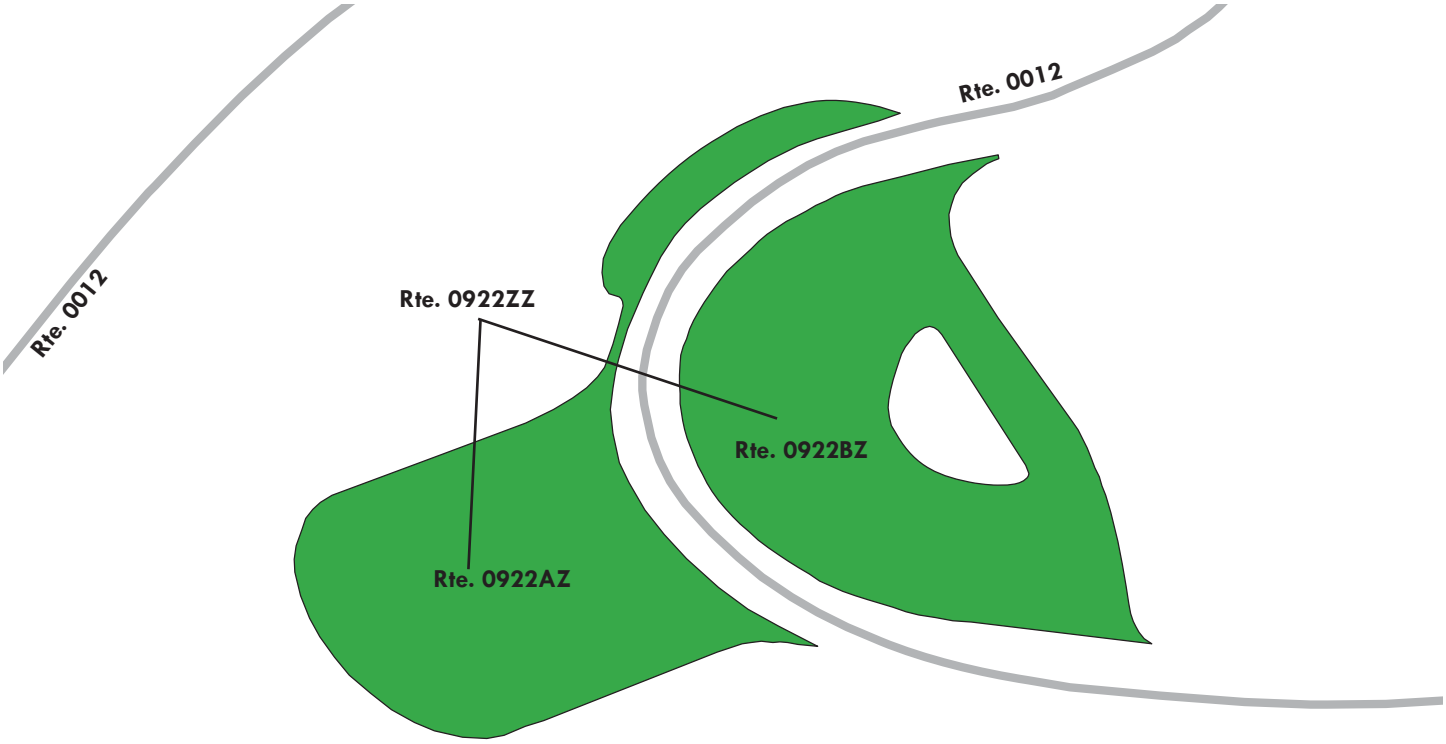
Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	75389	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Condition Rating / PCR**	
39,844	0.686	SUMMARY / 90	

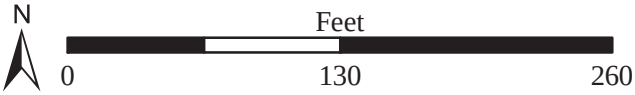
Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

The condition shown on this page reflects the overall route condition and may not reflect individual subcomponent ratings.





Crater Lake National Park

ROUTE 0922AZ: CAFETERIA AND GIFT SHOP PARKING A

Subcomponent of Route CRLA-0922ZZ
Manual Rating

FROM ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 6.85 ON RIGHT

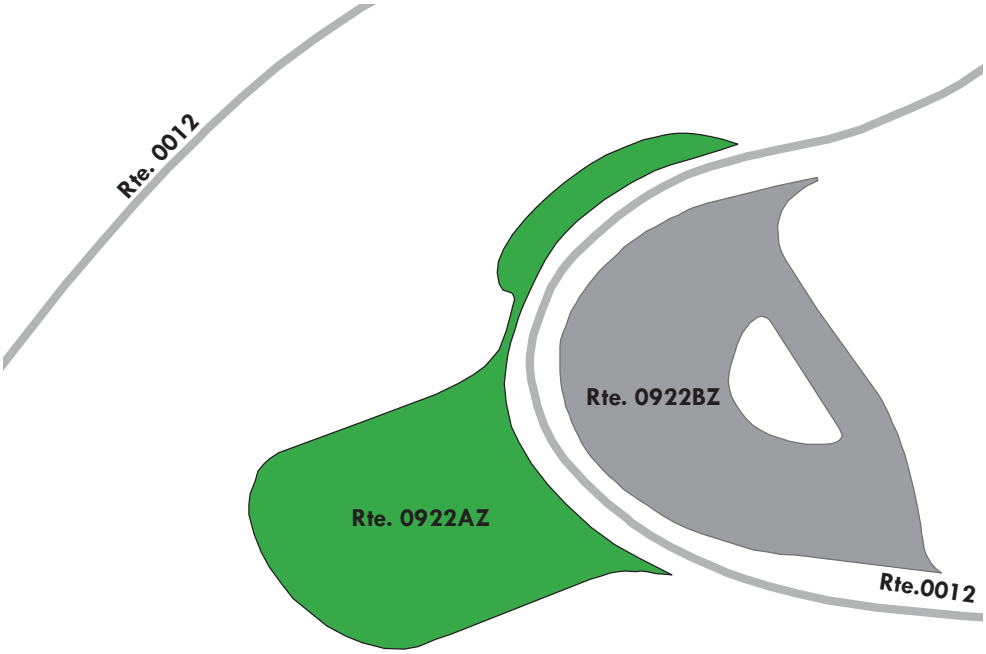
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	75389	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
19,049	0.328	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0922BZ: CAFETERIA AND GIFT SHOP PARKING B

Subcomponent of Route CRLA-0922ZZ
Manual Rating

FROM ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 6.85 ON LEFT

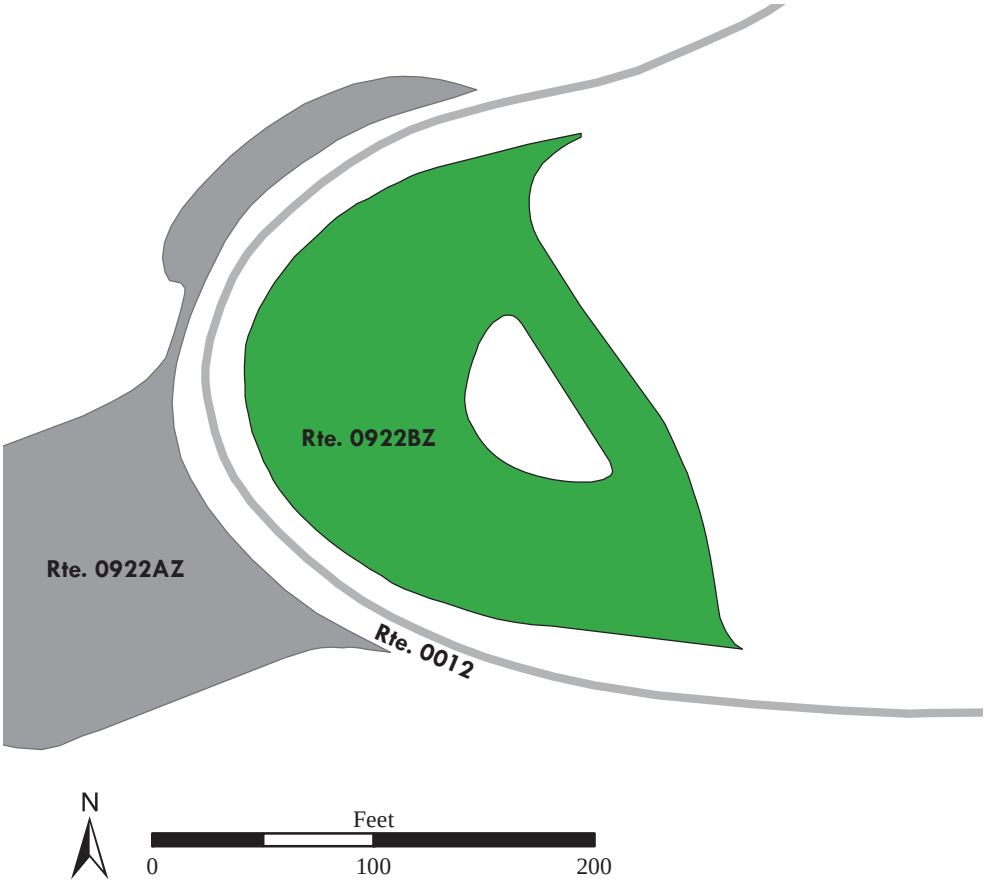
TO ROUTE 0012 (MUNSON VALLEY ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	75389	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
20,795	0.358	7	DO NOTHING
Curb Type		**Curb & Gutter Type**	
STONE		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0923ZZ: VISITOR CENTER AND SINNOTT OVERLOOK PARKING AREAS

Summary Route

Manual Rating

ADJACENT TO ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 6.95 ON RIGHT

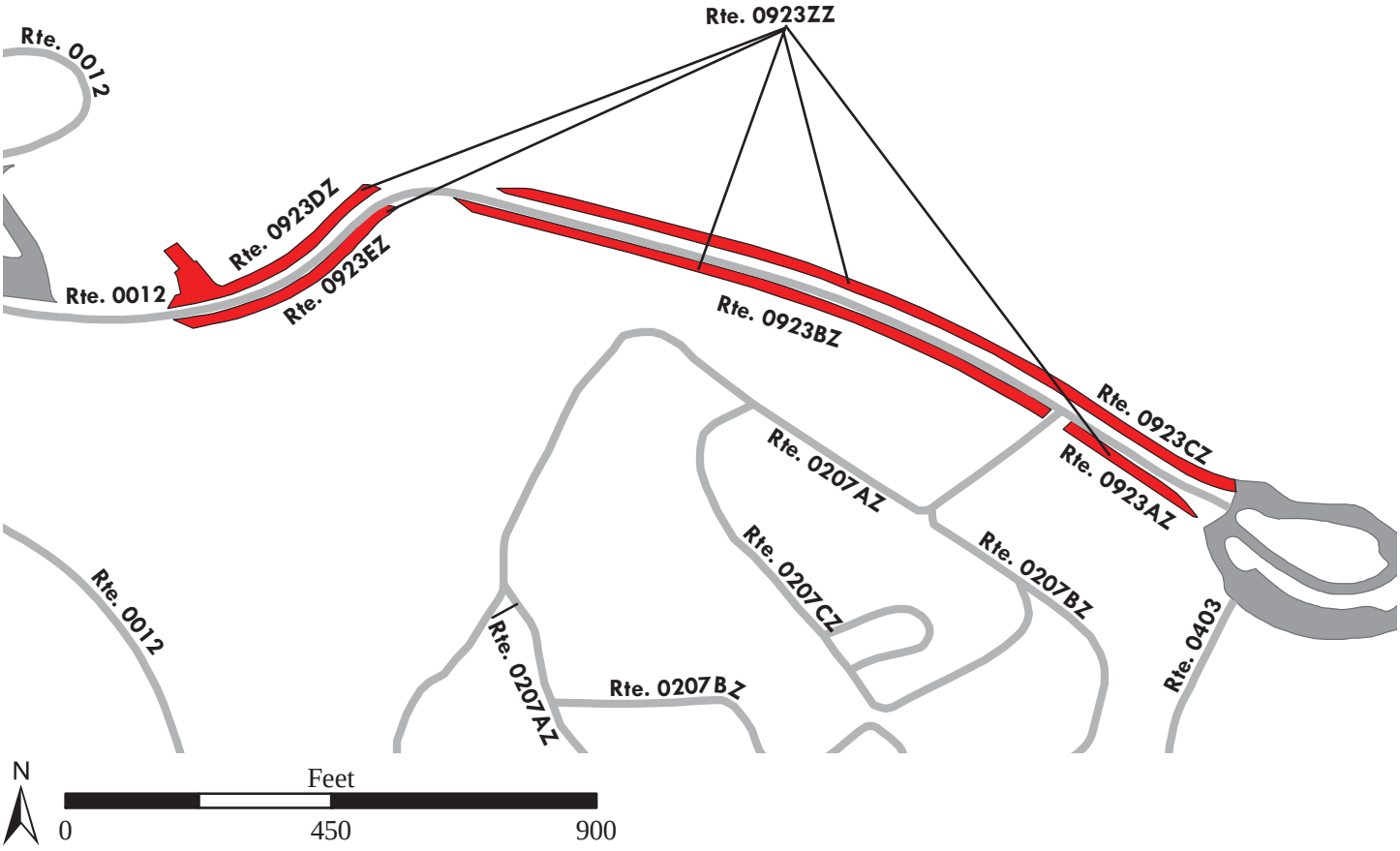
Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	75390	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Condition Rating / PCR**	
49,492	0.853	SUMMARY / 47	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

The condition shown on this page reflects the overall route condition and may not reflect individual subcomponent ratings.



Crater Lake National Park

ROUTE 0923AZ: VISITOR CENTER AND SINNOTT OVERLOOK PARKING A

Subcomponent of Route CRLA-0923ZZ
Manual Rating

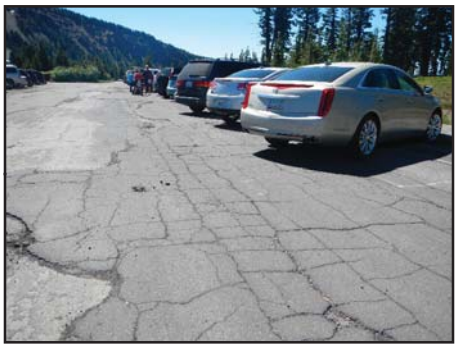
ADJACENT TO ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 7.18 ON RIGHT

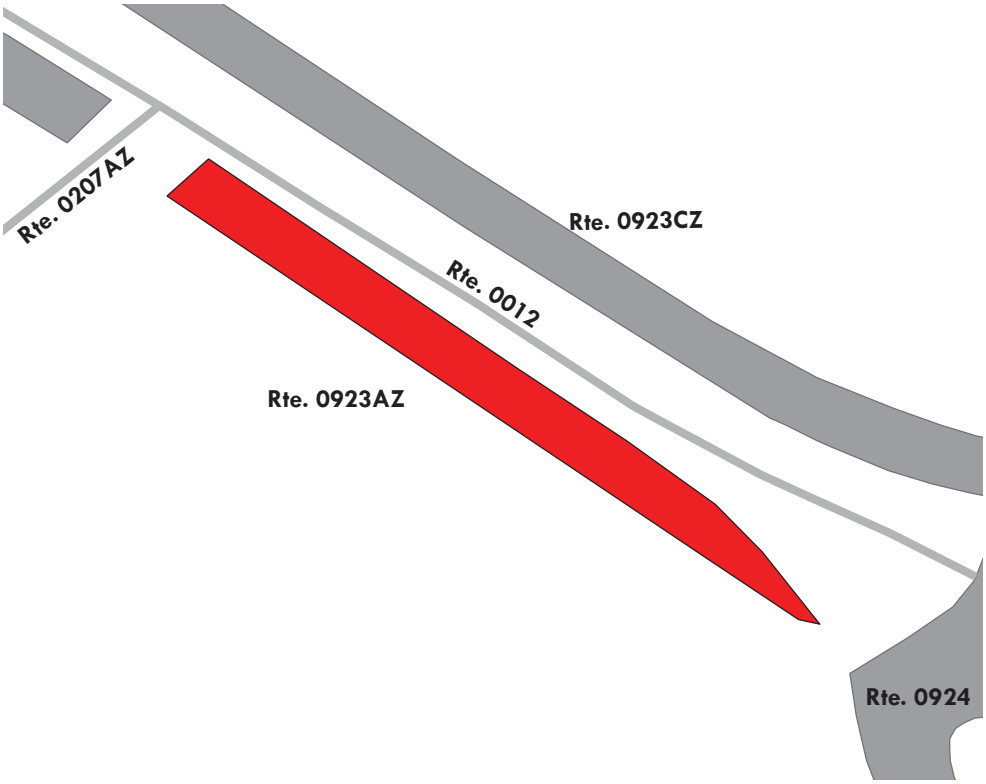
Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	75390	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
3,359	0.058	5	DO NOTHING
Curb Type		**Curb & Gutter Type**	
STONE		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
RECONSTRUCTION		POOR / 30	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60) | **Fair (61- 84)** | **Good (85 - 94)** | **Excellent (95 - 100)** | **Not Rated**

See Appendix for definitions and formulas





Crater Lake National Park

ROUTE 0923BZ: VISITOR CENTER AND SINNOTT OVERLOOK PARKING B

Subcomponent of Route CRLA-0923ZZ
Manual Rating

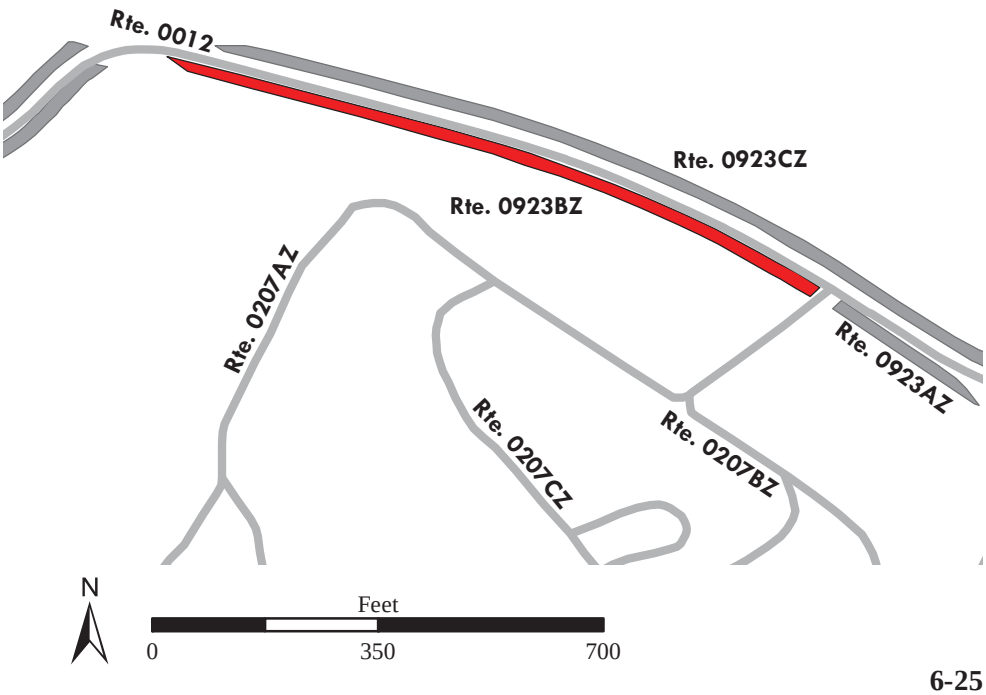
ADJACENT TO ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 7.08 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	75390	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
13,682	0.236	3	LIGHT REPAIR
Curb Type		**Curb & Gutter Type**	
STONE		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
RECONSTRUCTION		POOR / 30	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0923CZ: VISITOR CENTER AND SINNOTT OVERLOOK PARKING C

Subcomponent of Route CRLA-0923ZZ
Manual Rating

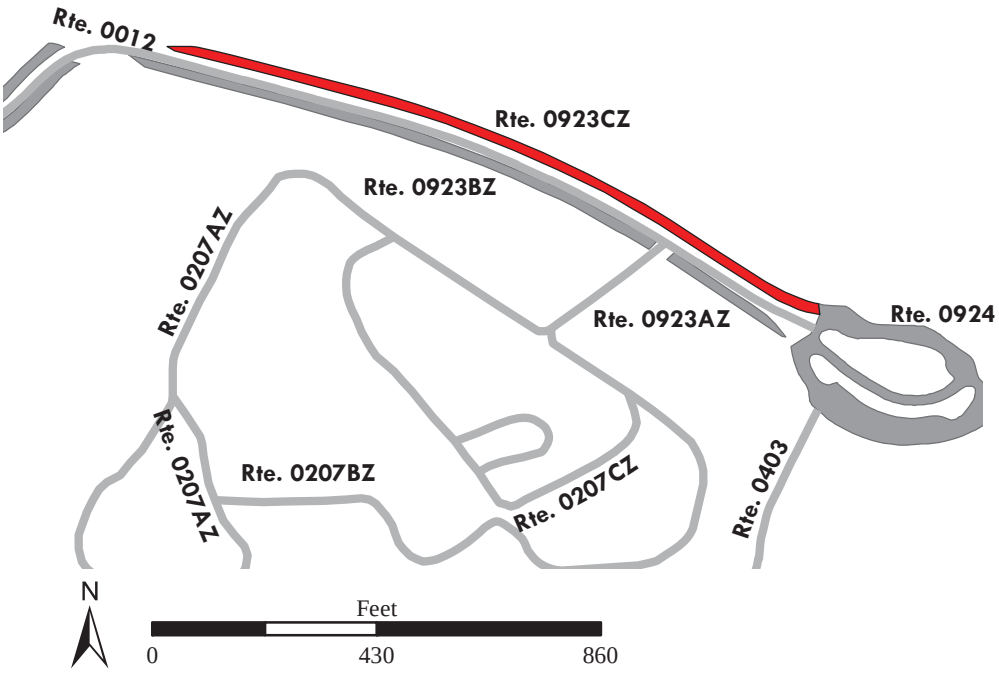
ADJACENT TO ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 7.14 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	75390	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
18,106	0.312	6	DO NOTHING
Curb Type		**Curb & Gutter Type**	
STONE		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
RECONSTRUCTION		POOR / 30	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60) | **Fair (61- 84)** | **Good (85 - 94)** | **Excellent (95 - 100)** | **Not Rated**

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0923DZ: VISITOR CENTER AND SINNOTT OVERLOOK PARKING D

Subcomponent of Route CRLA-0923ZZ
Manual Rating

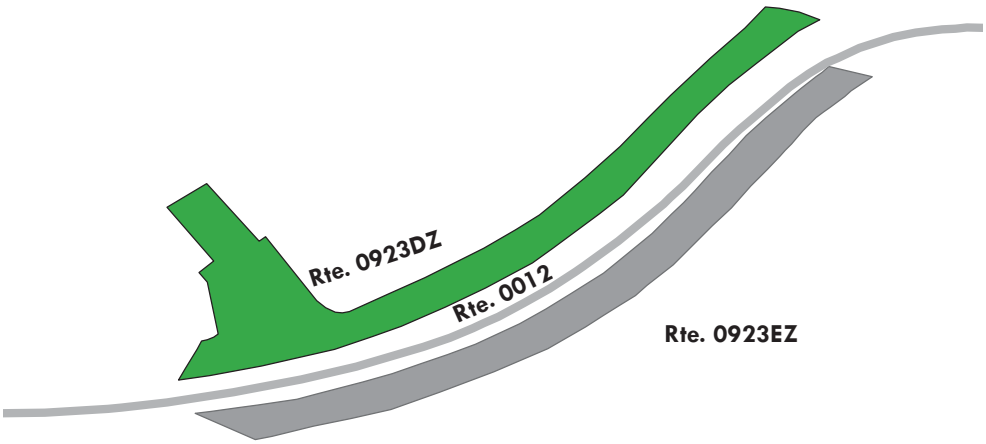
ADJACENT TO ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 6.96 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	75390	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
8,398	0.145	6	DO NOTHING
Curb Type		**Curb & Gutter Type**	
STONE		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0923EZ: VISITOR CENTER AND SINNOTT OVERLOOK PARKING E

Subcomponent of Route CRLA-0923ZZ
Manual Rating

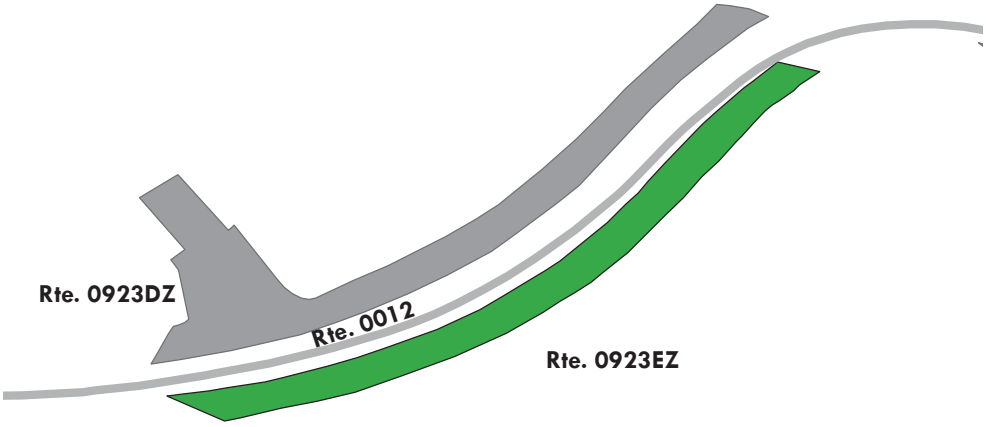
ADJACENT TO ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 6.95 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	75390	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
5,947	0.102	6	DO NOTHING
Curb Type		**Curb & Gutter Type**	
STONE		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60) | **Fair (61- 84)** | **Good (85 - 94)** | **Excellent (95 - 100)** | **Not Rated**

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0924: CRATER LAKE LODGE PARKING

Manual Rating

FROM END OF ROUTE 0012 (MUNSON VALLEY ROAD)

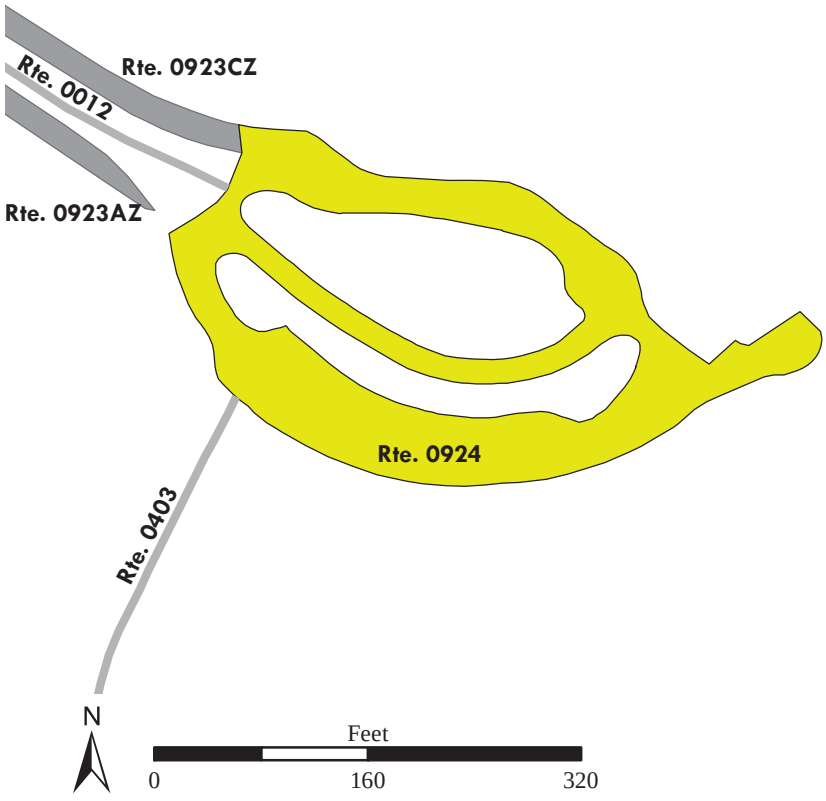
TO ROUTE 0403 (CRATER LAKE LODGE RESIDENCE ROAD) AT START

Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	75391	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
33,826	0.582	5	DO NOTHING
Curb Type		**Curb & Gutter Type**	
STONE		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
LIGHT 3R TREATMENTS		FAIR / 73	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0925: CRATER LAKE LODGE RESIDENCE PARKING

Manual Rating

FROM END OF ROUTE 0403 (CRATER LAKE LODGE RESIDENCE ROAD)

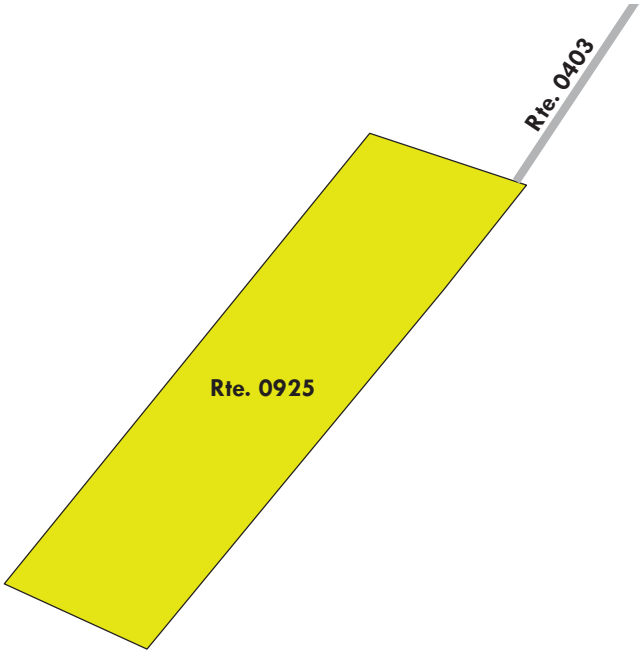
TO PARKING

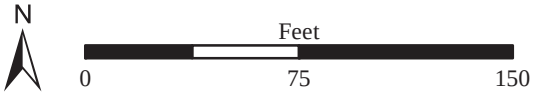
Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	75392	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
8,203	0.141	5	DO NOTHING
Curb Type		**Curb & Gutter Type**	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
LIGHT 3R TREATMENTS		FAIR / 73	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas





Crater Lake National Park

ROUTE 0926: CLEETWOOD (PUMICE POINT) PICNIC AREA

Manual Rating

FROM ROUTE 0013 (EAST RIM DRIVE) AT MP 3.63 ON LEFT

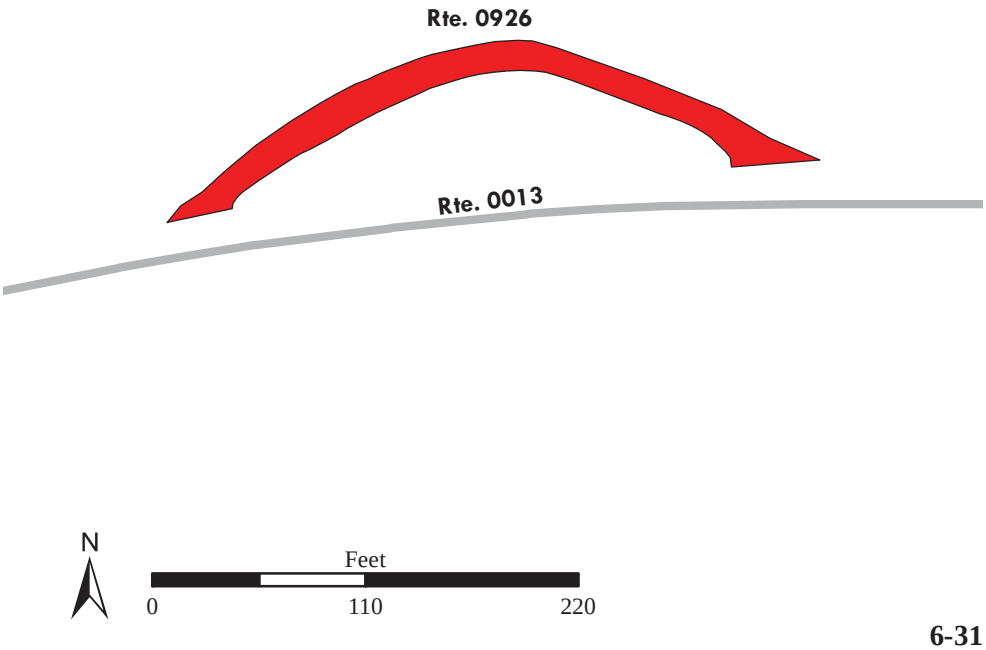
TO ROUTE 0013 (EAST RIM DRIVE) AT MP 3.67 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	75493	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
3,941	0.068	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
RECONSTRUCTION		POOR / 0	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0927: CLEETWOOD TRAIL PARKING

Manual Rating

FROM ROUTE 0013 (EAST RIM DRIVE) AT MP 4.53 ON LEFT

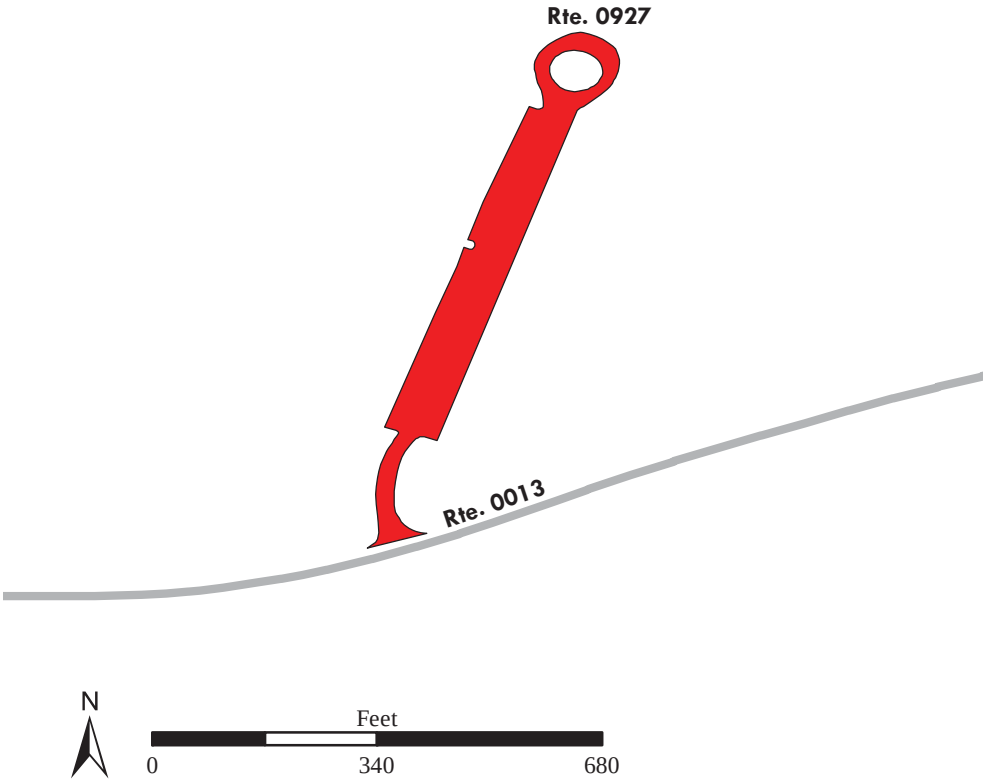
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	75496	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
39,231	0.675	7	REPLACE
Curb Type		**Curb & Gutter Type**	
ASPHALT		CONCRETE	
Pavement Recommendation		**Condition Rating / PCR**	
HEAVY 3R TREATMENTS		POOR / 53	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0928: THE CLEETWOOD OVER FLOW PARKING

Manual Rating

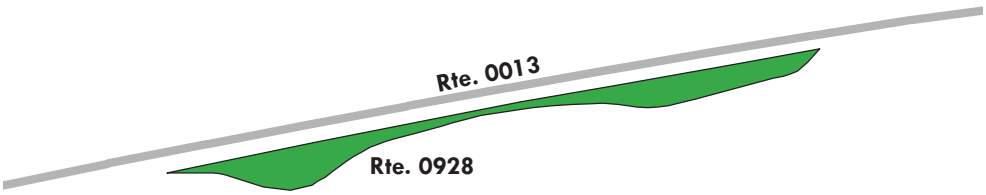
ADJACENT TO ROUTE 0013 (EAST RIM DRIVE) AT MP 4.71 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	75497	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
4,263	0.073	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0929: LOWER SKELL OVERLOOK

Manual Rating

FROM ROUTE 0013 (EAST RIM DRIVE) AT MP 7.83 ON RIGHT

TO ROUTE 0013 (EAST RIM DRIVE) AT MP 7.86 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	75498	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
13,974	0.241	8	DO NOTHING
Curb Type		**Curb & Gutter Type**	
STONE		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

Crater Lake National Park

ROUTE 0930: OVERLOOK PARKING

Manual Rating

FROM ROUTE 0013 (EAST RIM DRIVE) AT MP 7.96 ON RIGHT

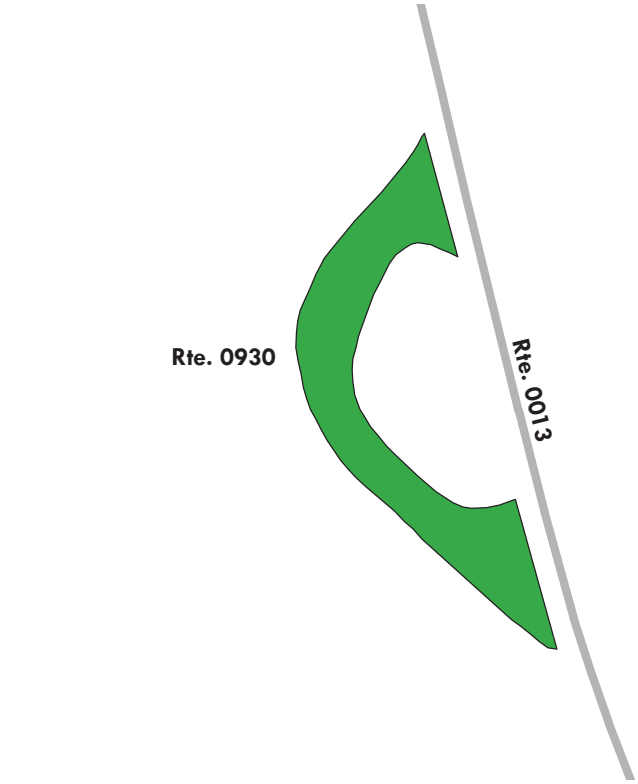
TO ROUTE 0013 (EAST RIM DRIVE) AT MP 7.99 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	75499	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
5,825	0.1	3	DO NOTHING
Curb Type		**Curb & Gutter Type**	
STONE		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0931: SKELL HEAD PICNIC AREA

Manual Rating

FROM ROUTE 0013 (EAST RIM DRIVE) AT MP 8.46 ON RIGHT

TO PARKING

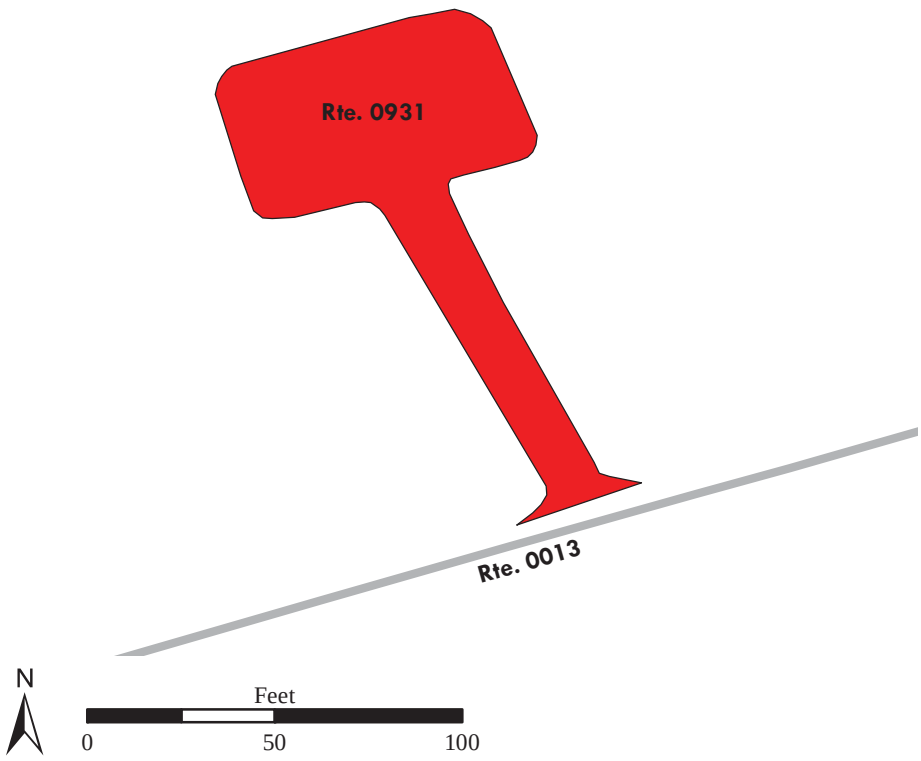
Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	75500	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
3,564	0.061	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
RECONSTRUCTION		POOR / 0	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

Parking area was given a Pavement Condition Rating (PCR) of 0 because it is in very poor condition. Individual distress indices could not be determined because of the excessive distress quantity and missing sections of pavement.



Crater Lake National Park

ROUTE 0932: SKELL HEAD OVERLOOK

Manual Rating

FROM ROUTE 0013 (EAST RIM DRIVE) AT MP 8.62 ON RIGHT

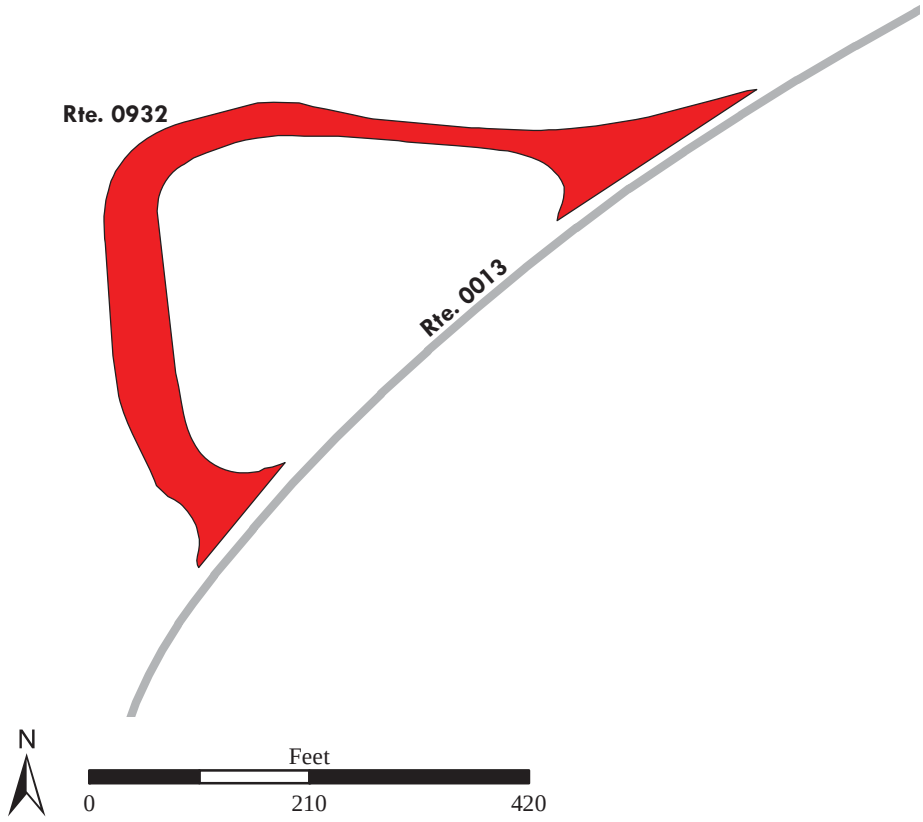
TO ROUTE 0013 (EAST RIM DRIVE) AT MP 8.70 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	75501	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
28,883	0.497	7	DO NOTHING
Curb Type		**Curb & Gutter Type**	
STONE		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
HEAVY 3R TREATMENTS		POOR / 53	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0933: WHITEBARK PICNIC AREA

Manual Rating

FROM ROUTE 0013 (EAST RIM DRIVE) AT MP 10.85 ON LEFT

TO PARKING

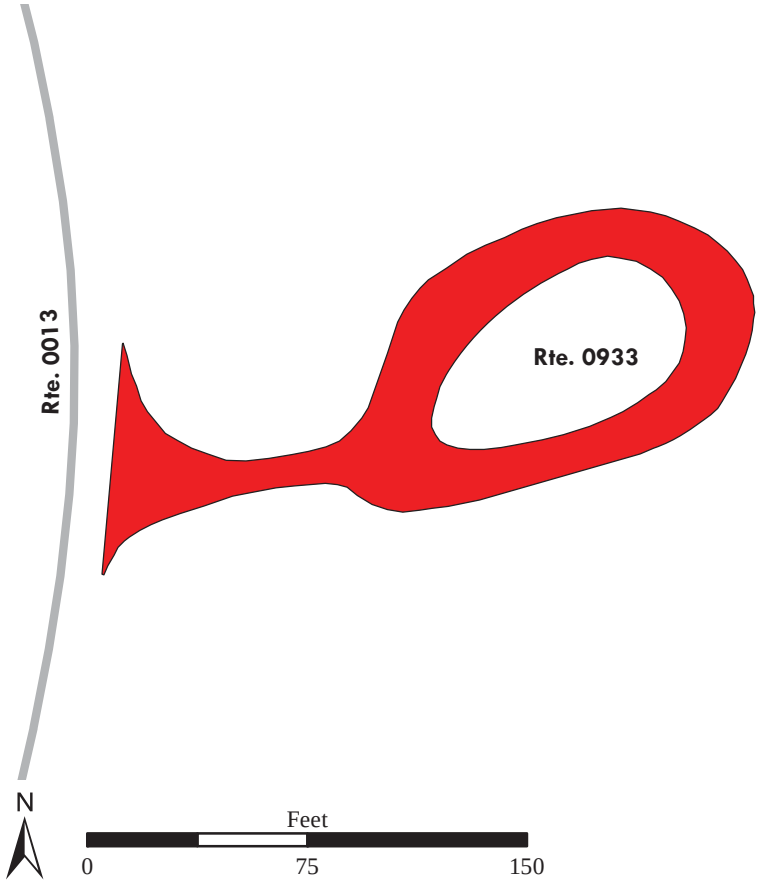
Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	75502	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
5,875	0.101	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
RECONSTRUCTION		POOR / 0	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

Parking area was given a Pavement Condition Rating (PCR) of 0 because it is in very poor condition. Individual distress indices could not be determined because of the excessive distress quantity and missing sections of pavement.



Crater Lake National Park

ROUTE 0934: MOUNT SCOTT TRAIL PARKING

Manual Rating

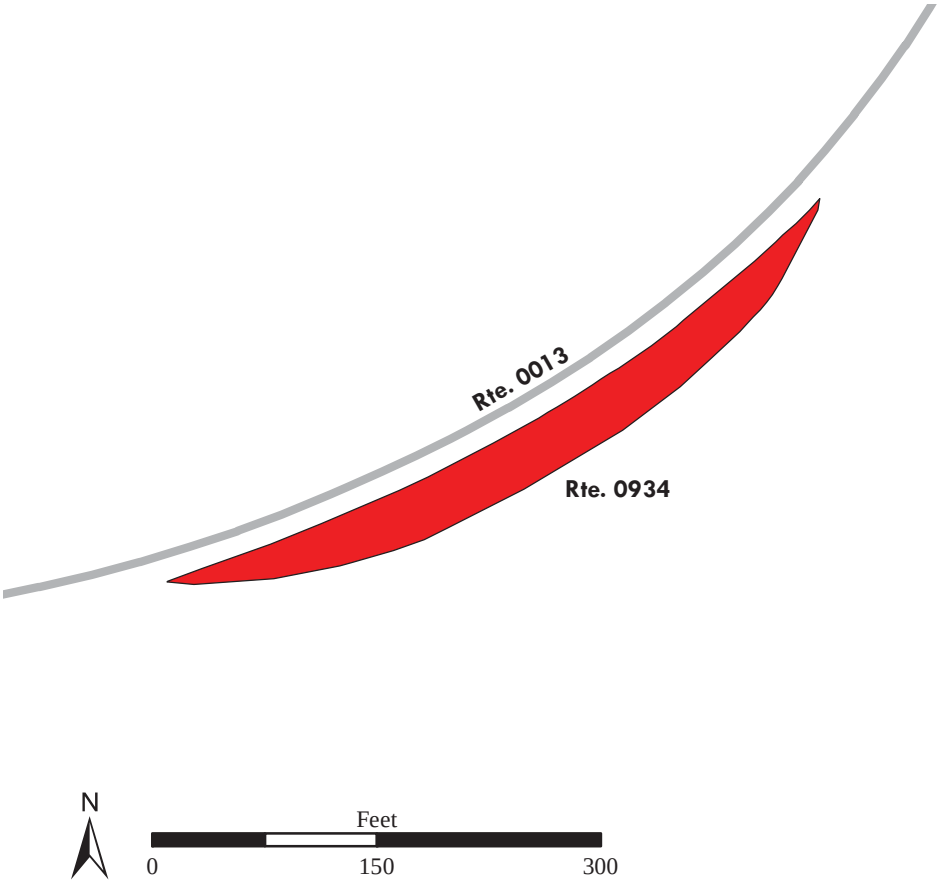
ADJACENT TO ROUTE 0013 (EAST RIM DRIVE) AT MP 10.97 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	75503	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
10,636	0.183	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
HEAVY 3R TREATMENTS		POOR / 53	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0935: CLOUDCAP OVERLOOK

Manual Rating

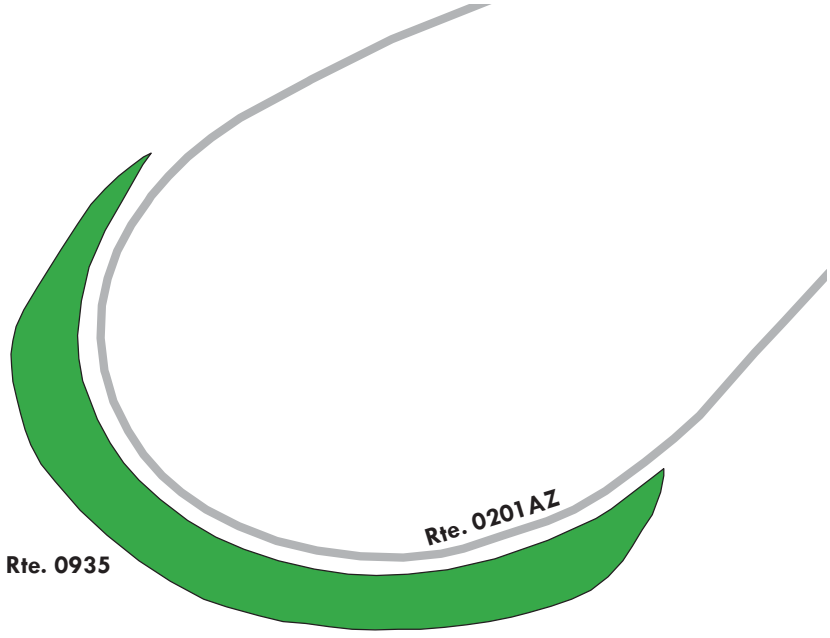
ADJACENT TO ROUTE 0201ZZ (CLOUDCAP VIEWPOINT ROADS)

Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	75504	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
3,955	0.068	7	DO NOTHING
Curb Type		**Curb & Gutter Type**	
STONE		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0936: PUMICE CASTLE

Manual Rating

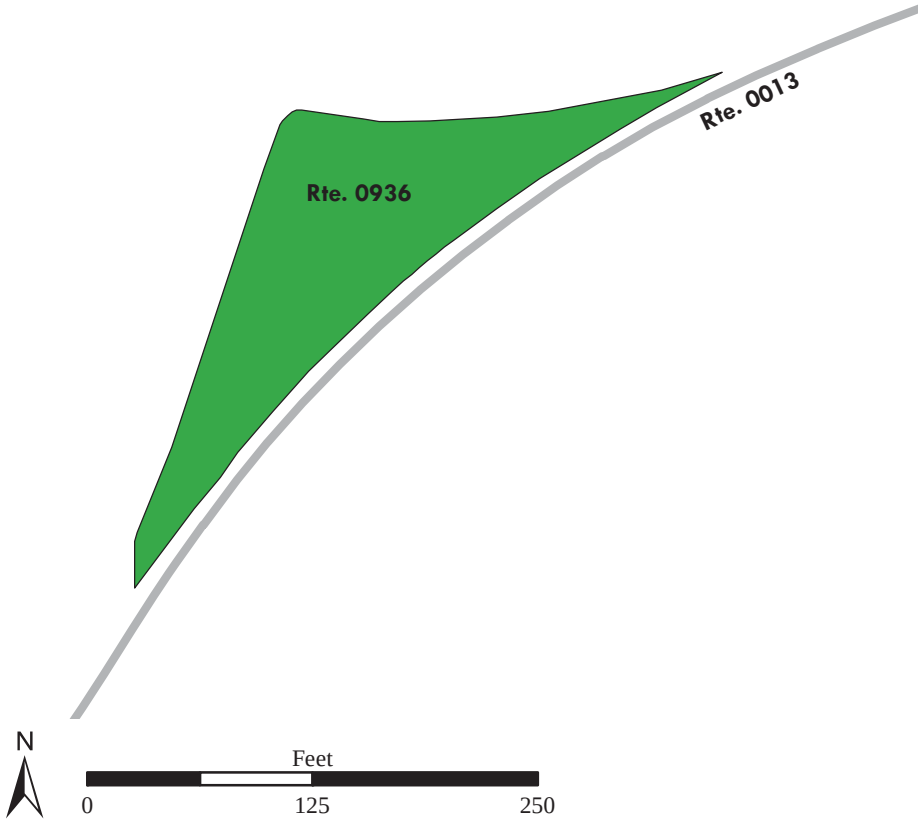
ADJACENT TO ROUTE 0013 (EAST RIM DRIVE) AT MP 12.37 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	75506	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
15,925	0.274	7	DO NOTHING
Curb Type		**Curb & Gutter Type**	
STONE		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0937: CASTLE ROCK OVERLOOK

Manual Rating

FROM ROUTE 0013 (EAST RIM DRIVE) AT MP 12.60 ON RIGHT

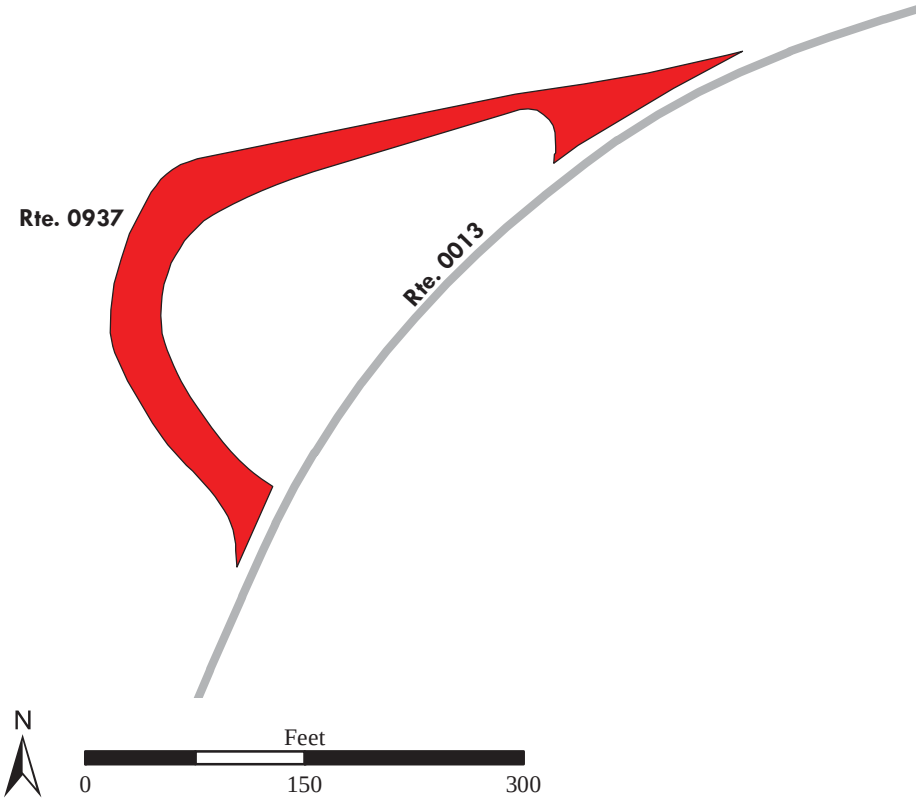
TO ROUTE 0013 (EAST RIM DRIVE) AT MP 12.67 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	75507	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
12,731	0.219	7	DO NOTHING
Curb Type		**Curb & Gutter Type**	
STONE		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
HEAVY 3R TREATMENTS		POOR / 53	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0938: SENTINEL POINT OVERLOOK

Manual Rating

FROM ROUTE 0013 (EAST RIM DRIVE) AT MP 12.81 ON RIGHT

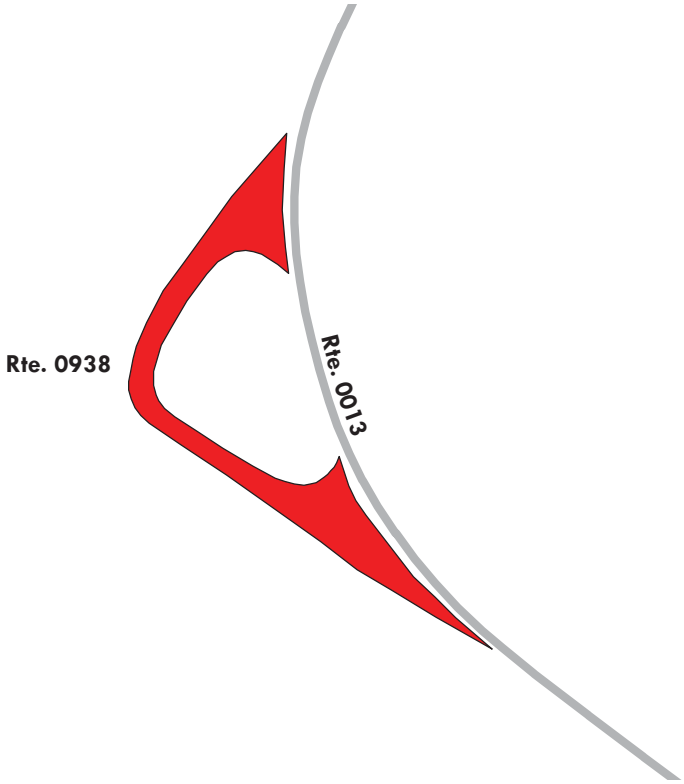
TO ROUTE 0013 (EAST RIM DRIVE) AT MP 12.87 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	75508	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
13,386	0.23	8	DO NOTHING
Curb Type		**Curb & Gutter Type**	
STONE		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
HEAVY 3R TREATMENTS		POOR / 53	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0939: PHANTOM SHIP OVERLOOK

Manual Rating

FROM ROUTE 0013 (EAST RIM DRIVE) AT MP 14.77 ON RIGHT

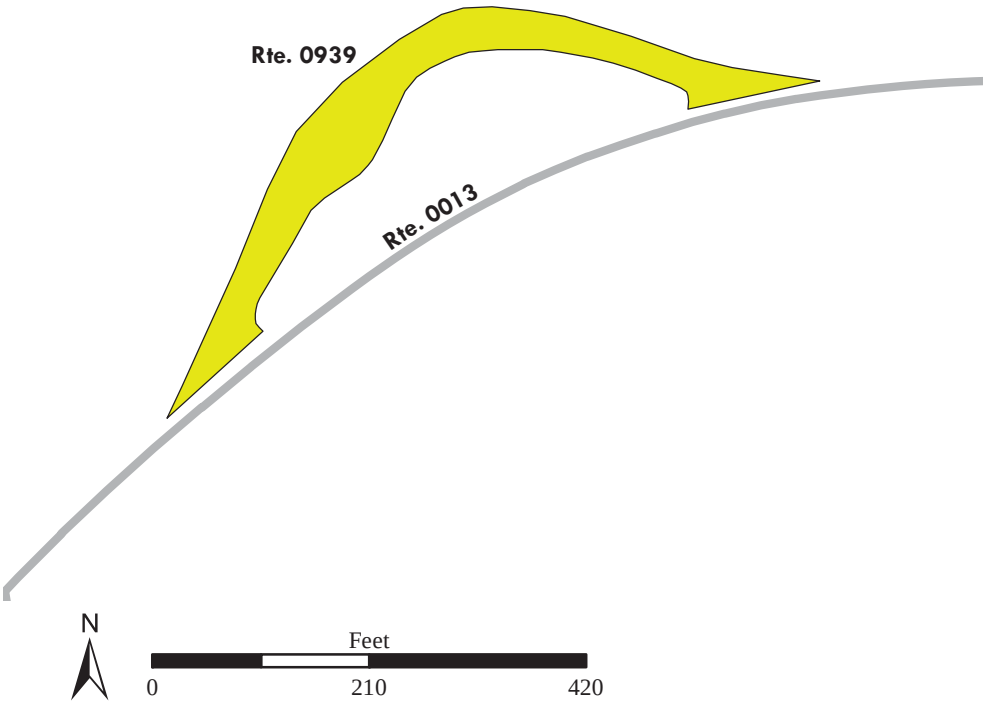
TO ROUTE 0013 (EAST RIM DRIVE) AT MP 14.86 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/11/2015	75509	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
23,095	0.398	8	DO NOTHING
Curb Type		**Curb & Gutter Type**	
STONE		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
LIGHT 3R TREATMENTS		FAIR / 73	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0940: THE PINNACLES OVERLOOK

Manual Rating

FROM END OF ROUTE 0100 (PINNACLES ROAD)

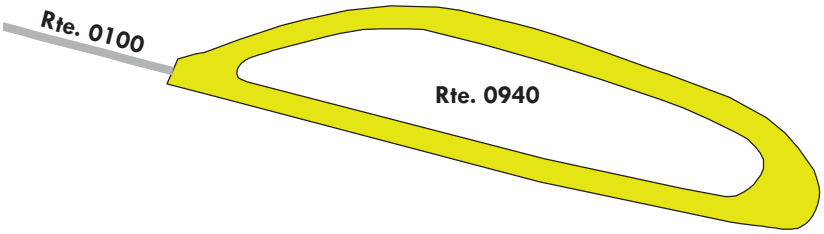
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
6/11/2015	75510	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
14,227	0.245	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
LIGHT 3R TREATMENTS		FAIR / 73	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0941: SUN NOTCH PARKING

Manual Rating

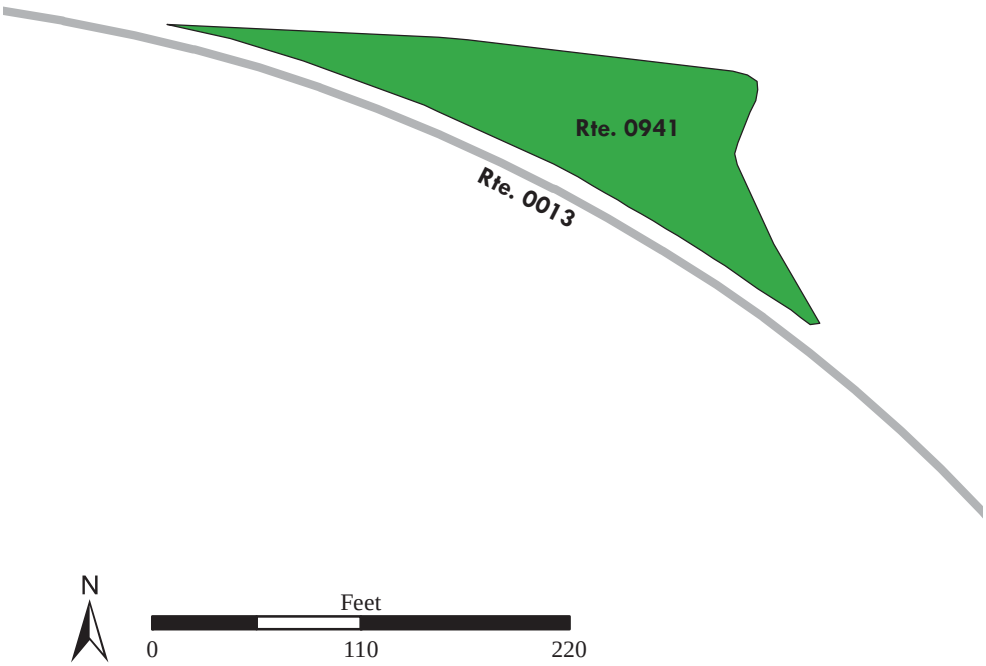
ADJACENT TO ROUTE 0013 (EAST RIM DRIVE) AT MP 18.84 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/11/2015	75511	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
10,951	0.189	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0942: VIDAE FALLS PARKING

Manual Rating

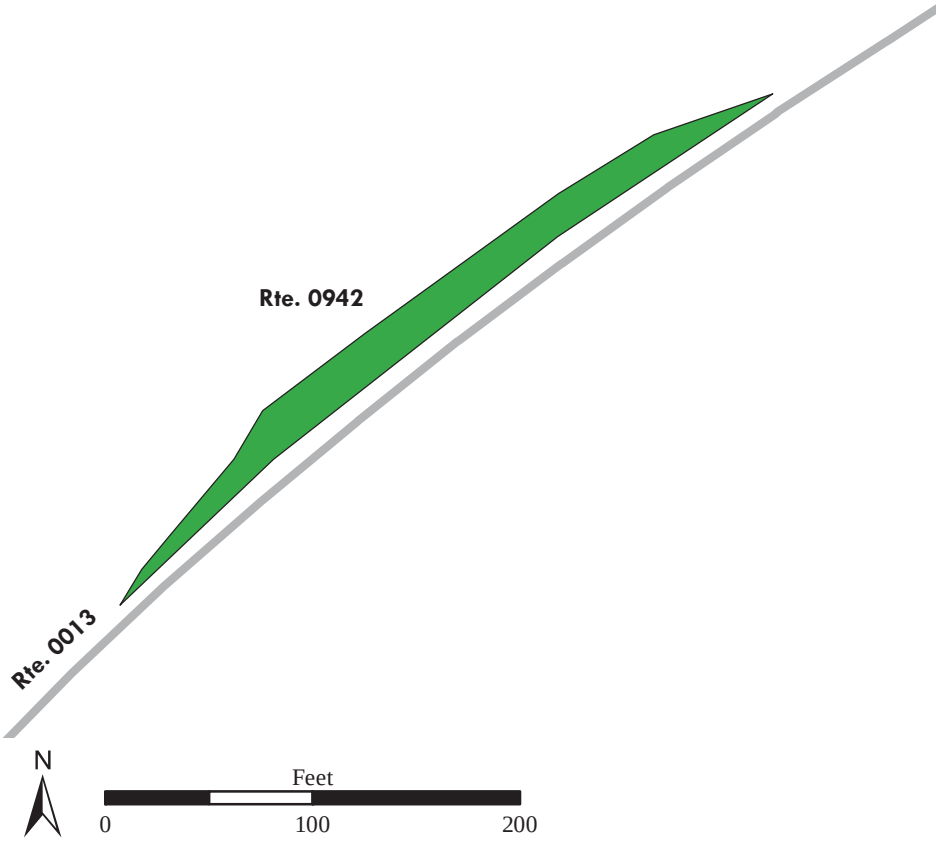
ADJACENT TO ROUTE 0013 (EAST RIM DRIVE) AT MP 20.21 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/11/2015	75512	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
4,278	0.074	9	DO NOTHING
Curb Type		**Curb & Gutter Type**	
STONE		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0943: CRATER PEAK TRAIL PARKING

Manual Rating

FROM END OF ROUTE 0204 (VIDAE FALLS PICNIC AREA LOOP)

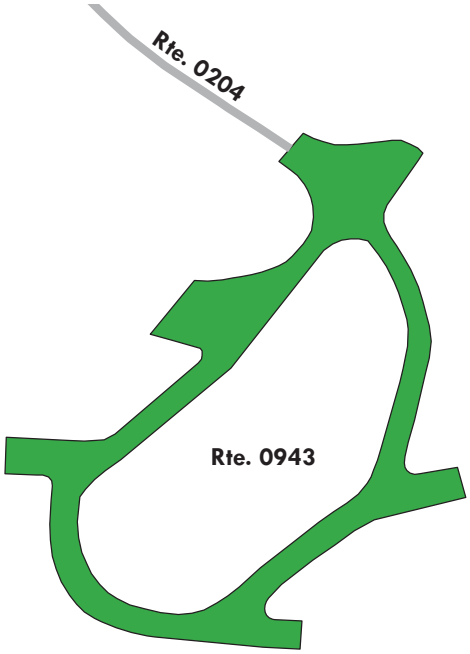
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
6/11/2015	75513	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
10,134	0.174	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0944: CASTLE CREST PARKING

Manual Rating

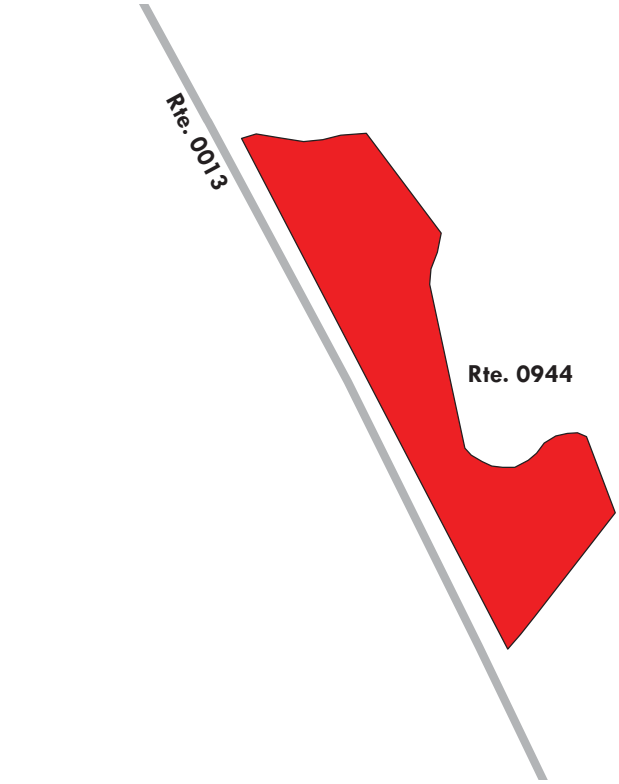
ADJACENT TO ROUTE 0013 (EAST RIM DRIVE) AT MP 22.85 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/11/2015	75514	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
1,489	0.026	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
HEAVY 3R TREATMENTS		POOR / 53	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0945: MOUNT SCOTT OVERLOOK

Manual Rating

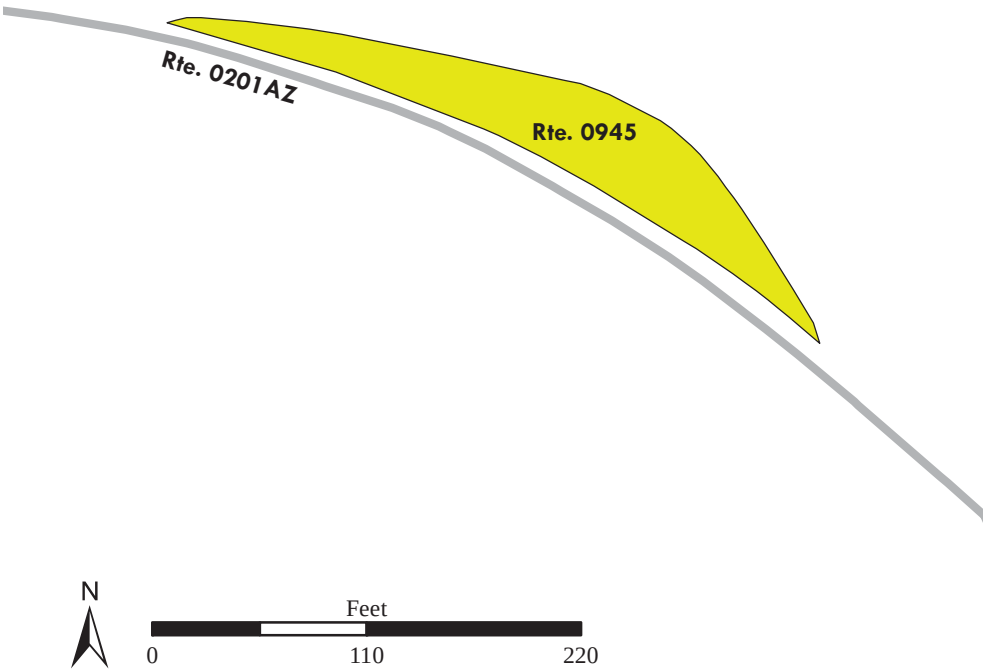
ADJACENT TO ROUTE 0201ZZ (CLOUDCAP VIEWPOINT ROADS)

Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	75515	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
7,427	0.128	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
LIGHT 3R TREATMENTS		FAIR / 73	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60) | **Fair (61- 84)** | **Good (85 - 94)** | **Excellent (95 - 100)** | **Not Rated**

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0946: ADMINISTRATION PARKING

Manual Rating

FROM ROUTE 0404ZZ (HEADQUARTERS RESIDENCE ROADS)

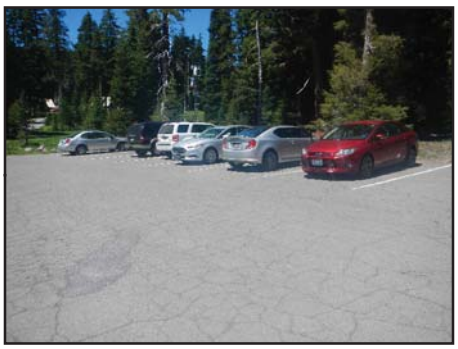
TO PARKING

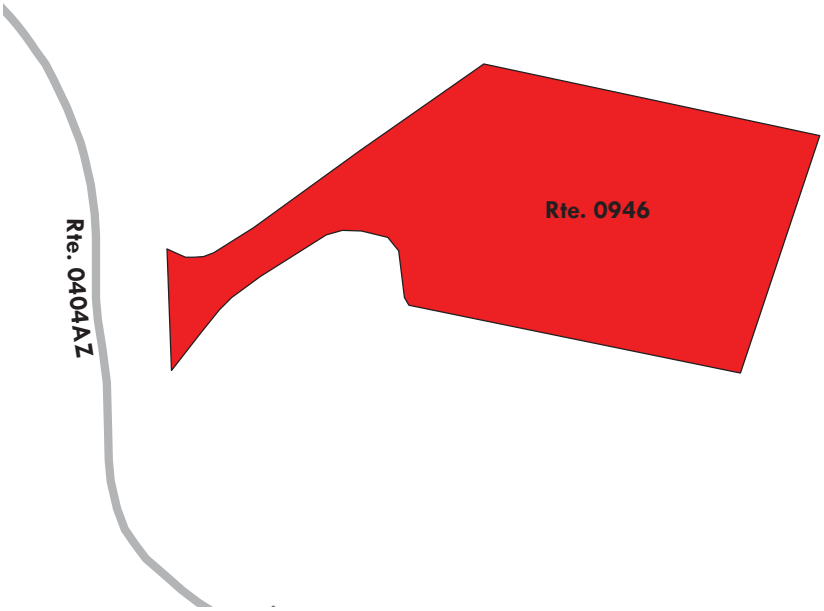
Inspection Date	FMSS Number	User Access	Surface Type
6/11/2015	75516	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
10,459	0.18	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
RECONSTRUCTION		POOR / 30	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas





Crater Lake National Park

ROUTE 0947ZZ: MAZAMA STORE PARKING AREAS

Summary Route
Manual Rating

FROM ROUTE 0200 (MAZAMA VILLAGE ENTRANCE ROAD) ON LEFT AND RIGHT

TO ROUTE 0200 (MAZAMA VILLAGE ENTRANCE ROAD) AT MP 0.45 ON LEFT

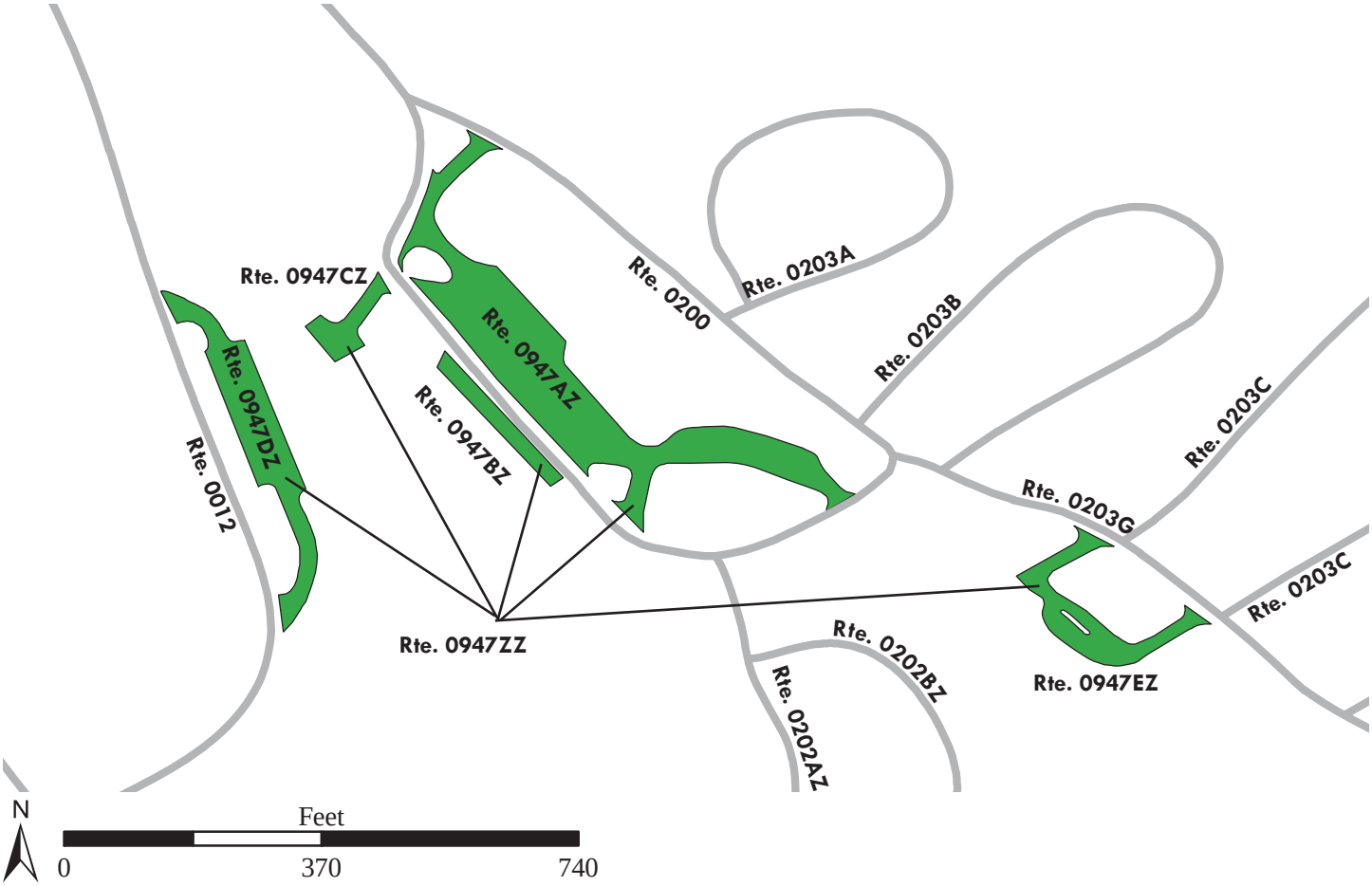
Inspection Date	FMSS Number	User Access	Surface Type
6/11/2015	99597	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Condition Rating / PCR**	
75,075	1.293	SUMMARY / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

The condition shown on this page reflects the overall route condition and may not reflect individual subcomponent ratings.



Crater Lake National Park

ROUTE 0947AZ: MAZAMA VILLAGE STORE PARKING A

Subcomponent of Route CRLA-0947ZZ
Manual Rating

FROM ROUTE 0200 (MAZAMA VILLAGE ENTRANCE ROAD) AT MP 0.15 ON LEFT

TO ROUTE 0200 (MAZAMA VILLAGE ENTRANCE ROAD AT MP 0.45 ON LEFT

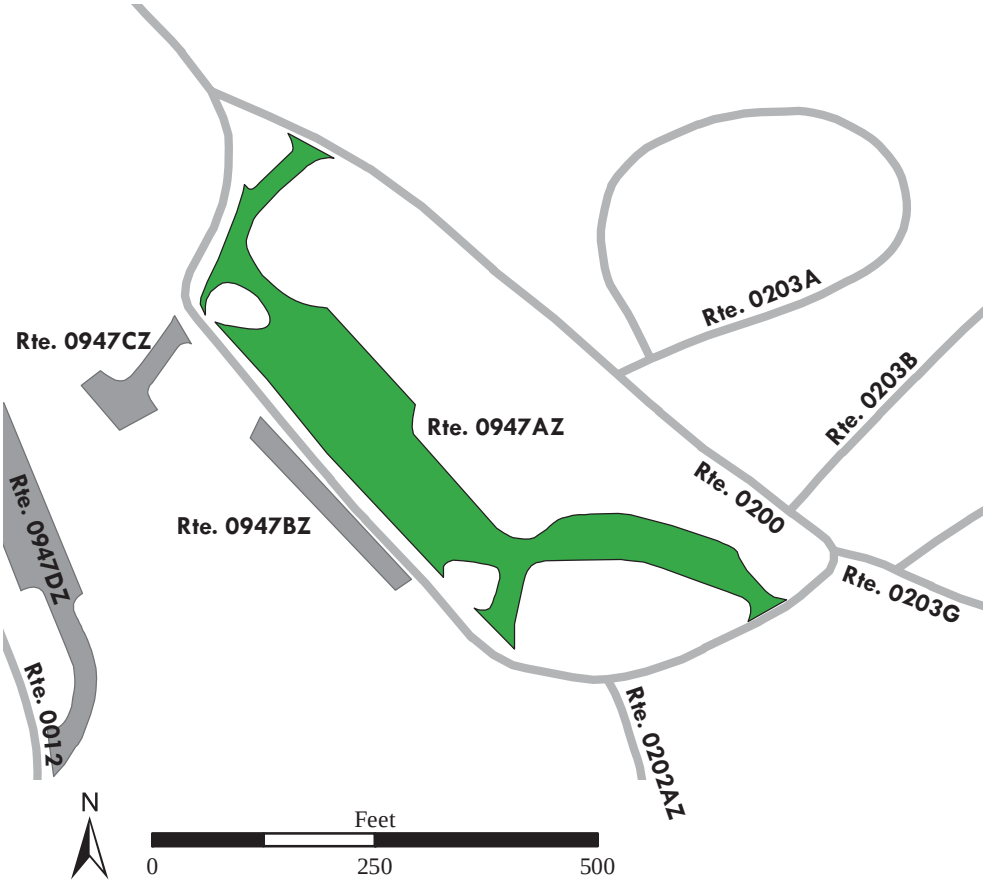
Inspection Date	FMSS Number	User Access	Surface Type
6/11/2015	99597	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
42,165	0.726	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

Parking area consists of multiple surface types: 1 part Asphalt at 39,776 square feet; 1 part Concrete at 2,389 square feet.



Crater Lake National Park

ROUTE 0947BZ: MAZAMA VILLAGE STORE PARKING B

Subcomponent of Route CRLA-0947ZZ
Manual Rating

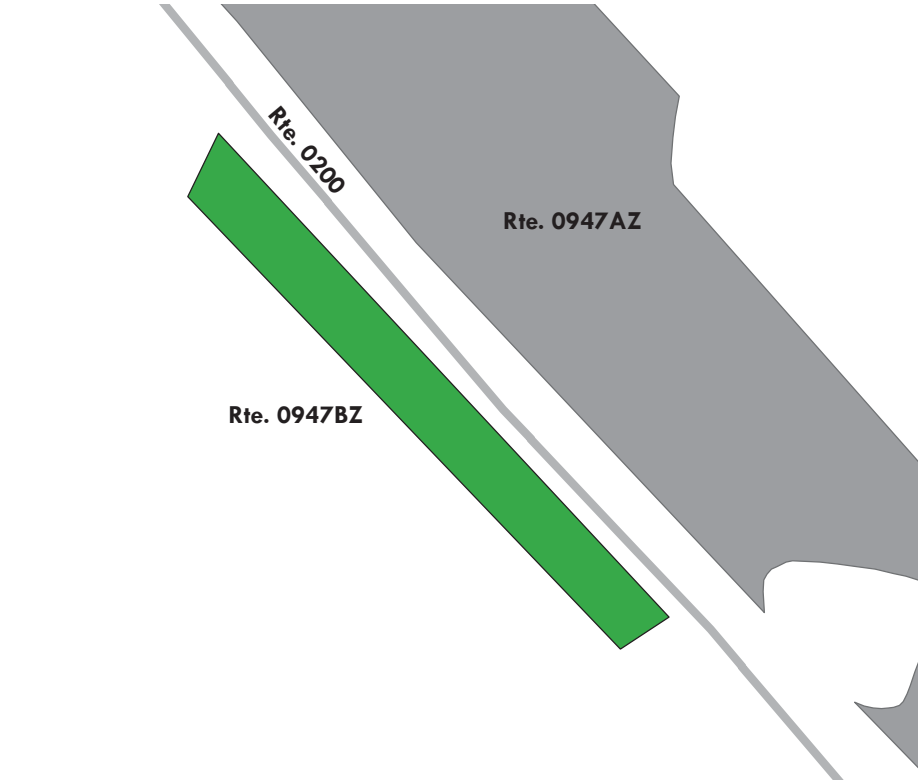
ADJACENT TO ROUTE 0200 (MAZAMA VILLAGE ENTRANCE ROAD) AT MP 0.22 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/11/2015	99597	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
4,138	0.071	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0947CZ: MAZAMA VILLAGE STORE PARKING C

Subcomponent of Route CRLA-0947ZZ
Manual Rating

FROM ROUTE 0200 (MAZAMA VILLAGE ENTRANCE ROAD) AT MP 0.18 ON RIGHT

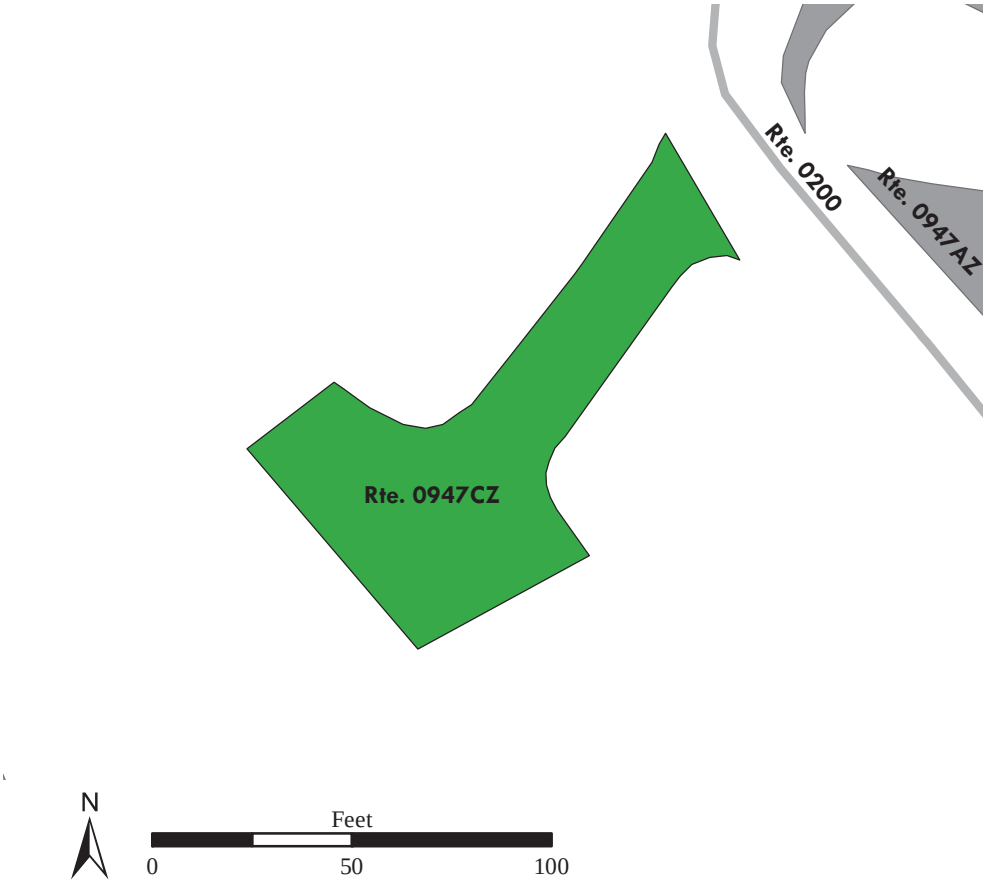
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
6/11/2015	99597	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
3,600	0.062	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60) | **Fair (61- 84)** | **Good (85 - 94)** | **Excellent (95 - 100)** | **Not Rated**

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0947DZ: ANNIE CREEK RESTAURANT PARKING

Subcomponent of Route CRLA-0947ZZ
Manual Rating

FROM ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 0.07 ON RIGHT

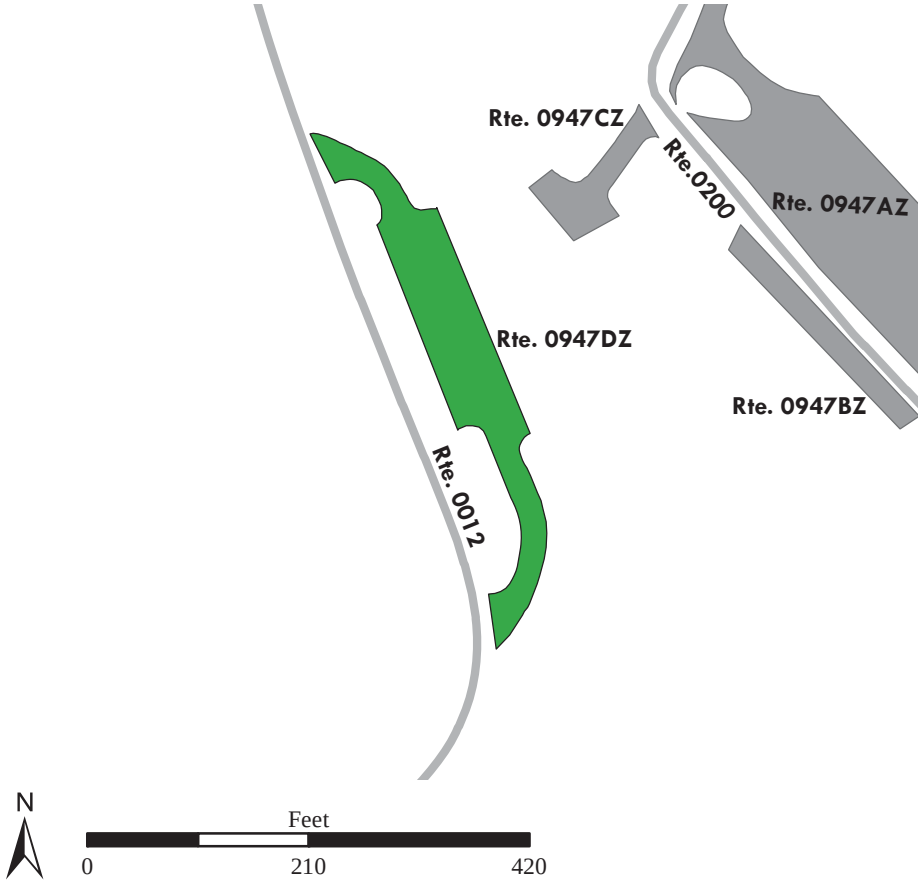
TO ROUTE 0012 (MUNSON VALLEY ROAD) AT MP 0.16 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/11/2015	99597	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
15,899	0.274	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0947EZ: MAZAMA DUMP STATION

Subcomponent of Route CRLA-0947ZZ
Manual Rating

FROM ROUTE 0203G (MAZAMA CAMPGROUND LOOP G)

TO ROUTE 0203G (MAZAMA CAMPGROUND LOOP G)

Inspection Date	FMSS Number	User Access	Surface Type
6/11/2015	99597	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
9,273	0.16	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

Parking area consists of multiple surface types: 1 part Asphalt at 8,910 square feet; 2 parts Concrete at 363 square feet.

Crater Lake National Park

ROUTE 0949: NORTH ENTRANCE RESTROOM PARKING

Manual Rating

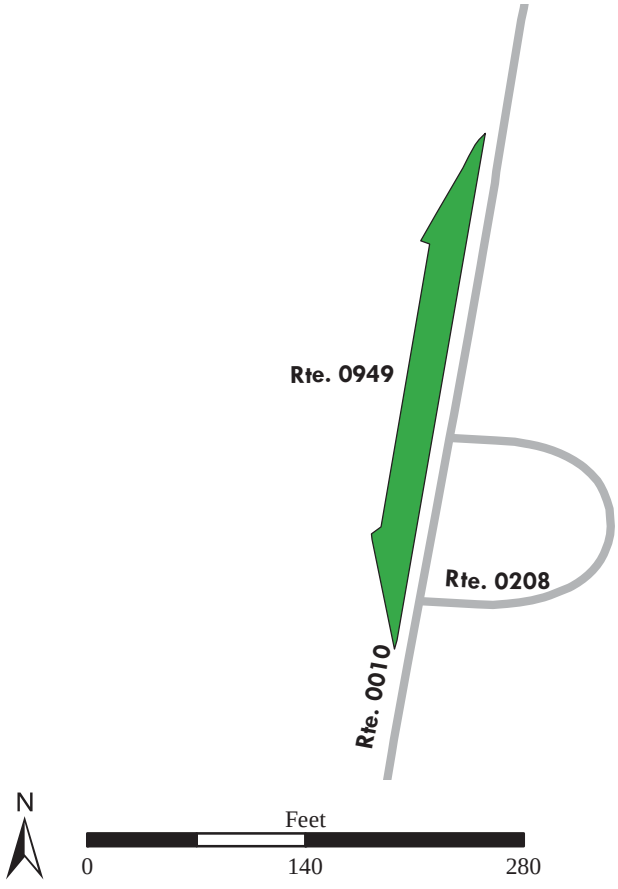
ADJACENT TO ROUTE 0010 (NORTH ENTRANCE ROAD) AT MP 8.31 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	99598	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
4,730	0.081	6	DO NOTHING
Curb Type		**Curb & Gutter Type**	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0951: WEST ENTRANCE PARKING AREA

Manual Rating

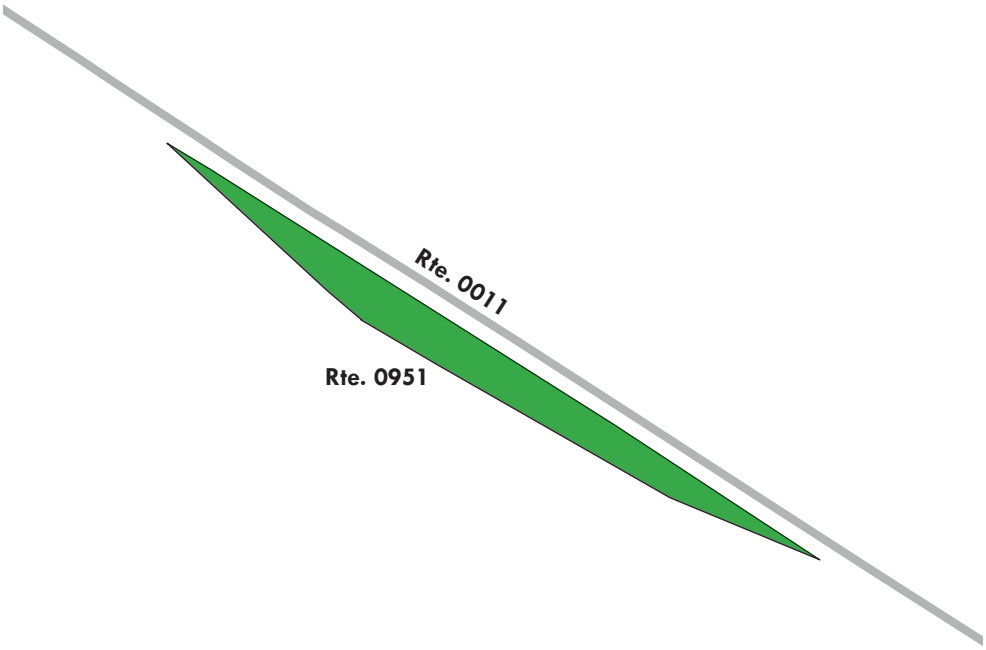
ADJACENT TO ROUTE 0011 (CRATER LAKE HIGHWAY) AT MP 1.00 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	99603	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
3,650	0.063	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0955ZZ: MOTOR LODGE PARKING AREAS

Summary Route
Manual Rating

ADJACENT TO ROUTE 0202ZZ (MAZAMA MOTOR LODGE ROADS)

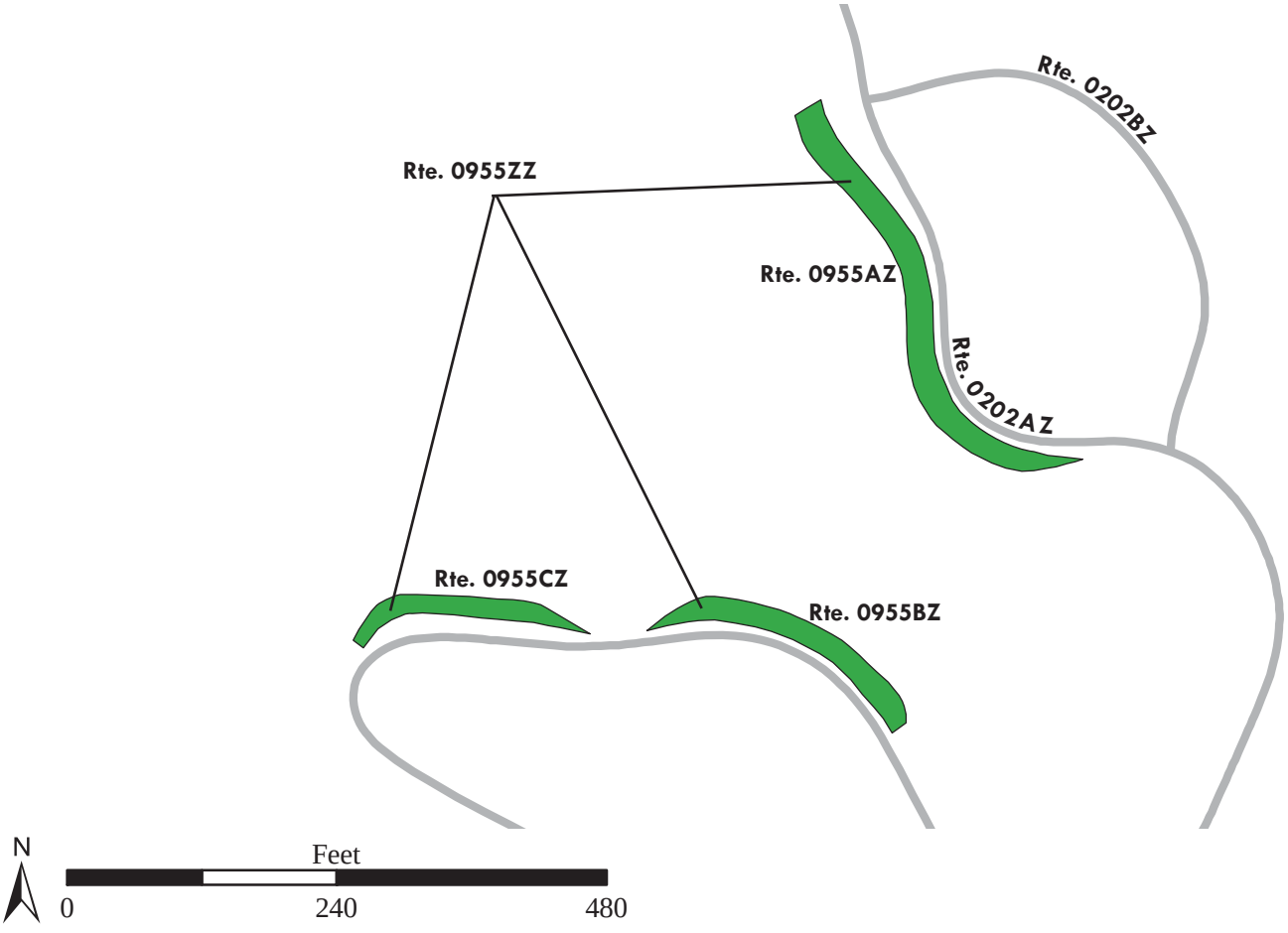
Inspection Date	FMSS Number	User Access	Surface Type
6/11/2015	N/A	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Condition Rating / PCR**	
13,570	0.234	SUMMARY / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas

The condition shown on this page reflects the overall route condition and may not reflect individual subcomponent ratings.



Crater Lake National Park

ROUTE 0955AZ: MOTOR LODGE PARKING A

Subcomponent of Route CRLA-0955ZZ
Manual Rating

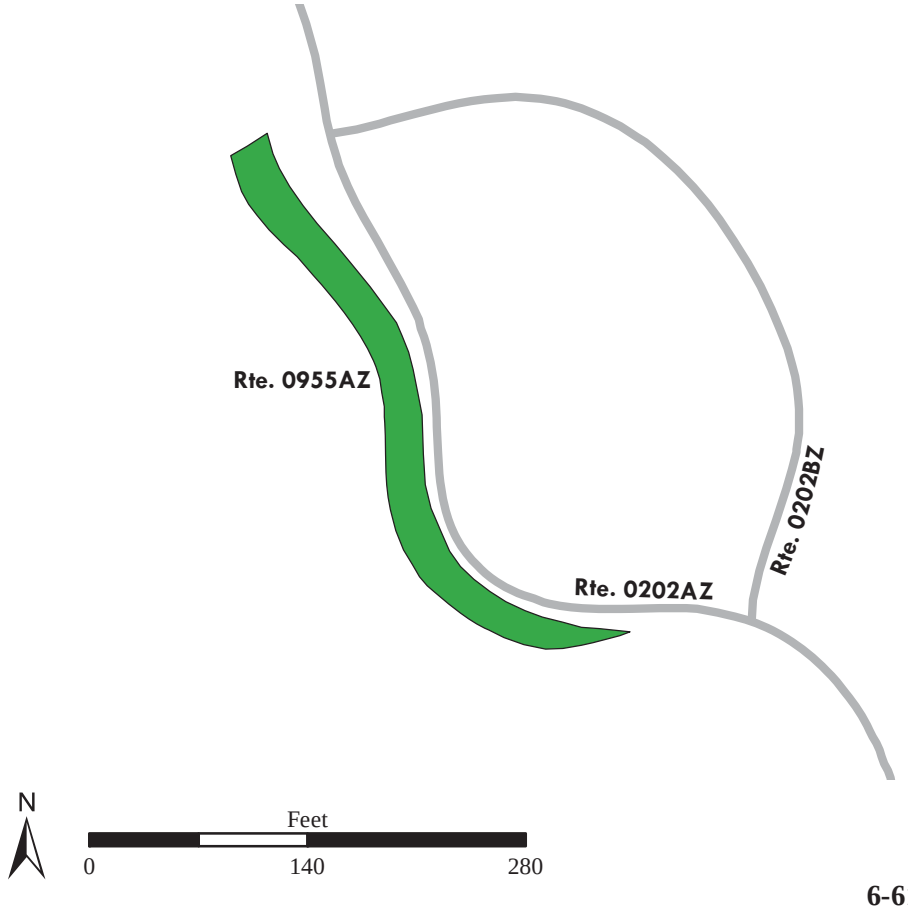
ADJACENT TO ROUTE 0202AZ (MAZAMA MOTOR LODGE LOOP ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
6/11/2015	N/A	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
7,300	0.126	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0955BZ: MOTOR LODGE PARKING B

Subcomponent of Route CRLA-0955ZZ
Manual Rating

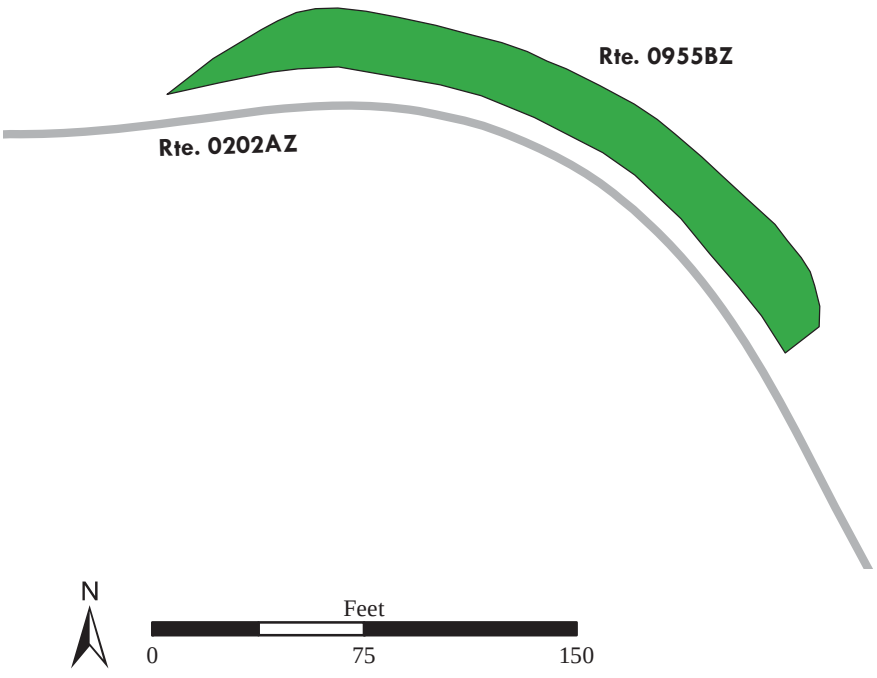
ADJACENT TO ROUTE 0202AZ (MAZAMA MOTOR LODGE LOOP ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
6/11/2015	N/A	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
3,771	0.065	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0955CZ: MOTOR LODGE PARKING C

Subcomponent of Route CRLA-0955ZZ
Manual Rating

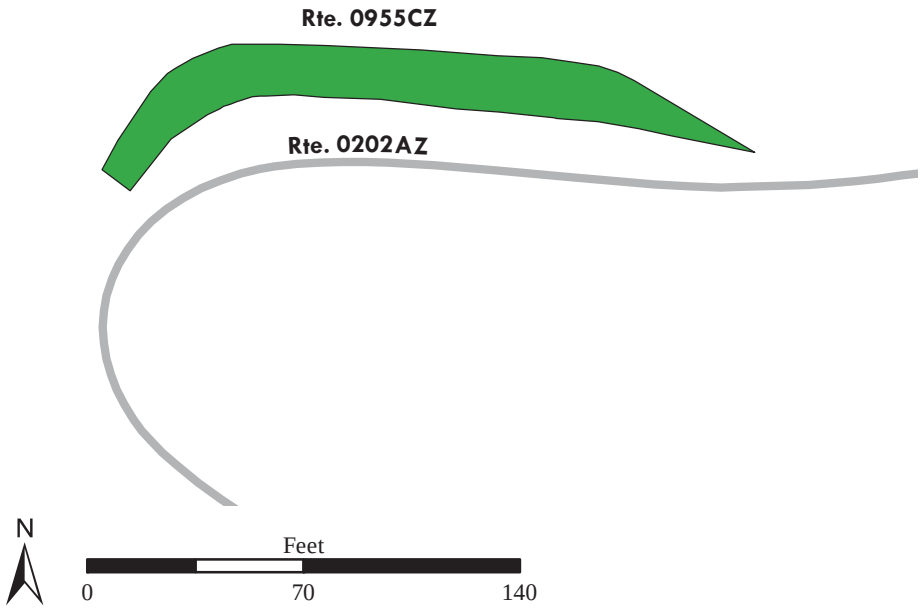
ADJACENT TO ROUTE 0202AZ (MAZAMA MOTOR LODGE LOOP ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
6/11/2015	N/A	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
2,499	0.043	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
PREVENTIVE MAINTENANCE		GOOD / 90	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Crater Lake National Park

ROUTE 0956: PLAIKNI TRAIL PARKING

Manual Rating

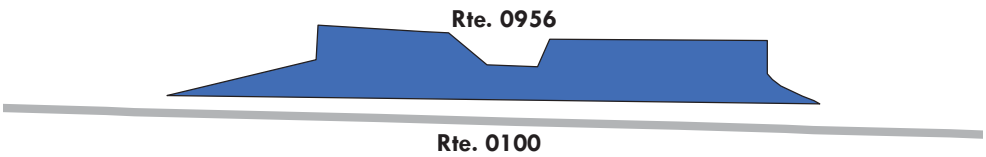
ADJACENT TO ROUTE 0100 (PINNACLES ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
6/12/2015	228419	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
6,182	0.106	NOT APPLICABLE	NOT APPLICABLE
Curb Type		**Curb & Gutter Type**	
NO CURB		NO CURB AND GUTTER	
Pavement Recommendation		**Condition Rating / PCR**	
DO NOTHING		EXCELLENT / 97	

Route Condition Legend – Pavement Condition Rating (PCR)

Poor (0 - 60)	Fair (61- 84)	Good (85 - 94)	Excellent (95 - 100)	Not Rated

See Appendix for definitions and formulas



Section 7
Road Milepost Information

Crater Lake National Park

Federal Lands Highway
Road Inventory Program

Road Milepost Information

This report section contains road milepost information for all paved roads in the park that were collected with the Data Collection Vehicle (DCV). The milepost data is obtained from the DCV by using a distance measuring instrument (DMI) that is calibrated to record mileage to the nearest thousandth of a mile. Park roads that were manually rated did not have milepost data collected, and thus are not included in this report section.

For Cycle 6, the information presented in this section differs from previous RIP cycles in that it does not contain the roadside features inventories for the paved park roads. Some examples of the features previously collected are signs, culverts/drop inlets, guardrails, curbing, pullouts, etc. If the park was collected in a previous RIP cycle, then the latest features data can be obtained by referencing the following:

Where to find the latest Features Inventories for NPS Parks:

- For Small Parks (parks with less than 10 miles of paved roads):
    - Refer to Cycle 5 data (collected 2010 - 2014)
        - Features were reported in Section 9 of the ***Cycle 5*** RIP report
        - Video of features can be viewed using the ***PathViewVO*** program and ***Cycle 5*** data

- For Large Parks (parks with more than 10 miles of paved roads):
    - Refer to Cycle 4 data (collected 2006 - 2009)
        - Features were reported in Section 9 of the ***Cycle 4*** RIP report
        - Video of features can be viewed using the ***VisiData*** program and ***Cycle 4*** data
    - Note: Features inventories were updated in Large Parks in ***Cycle 5*** only on a route by route basis if the route was new or modified in ***Cycle 5***. If this is the case for a particular route, then features for the route can be obtained using the ***PathViewVO*** program and ***Cycle 5*** data (same as above for Small parks).

Milepost Events Verified in Cycle 6

In Cycle 6, the following events were collected and reported in Section 7 of this report:

- Intersections with roads and parking areas
- All bridges and culverts with BIP Numbers (bridge inspection program numbers)
- Mile Marker Signs
- One-Way travel directions
- Overpasses
- Tunnels
- Low Water Crossings (LWCR)
- Surface type changes
- Construction areas where no pavement condition data was obtained

GPS Mileage Matching

A consistent survey milepost and constant route length as recorded by the Data Collection Vehicle (DCV) is a challenge to maintain from one collection cycle to the next. The challenge is due to many factors such as driver characteristics, DMI calibration, tire pressure etc. After Cycle 4 (~2010), a decision was made to hold constant the length of roads so long as there was no physical change from reconstruction projects or realignments that would result in a change to the length of a road. Consequently, the "GPS Mileage Match" was implemented to specify which cycle the route length is being matched. Route mileages and GPS are matched to a previous collection whenever there is no physical change to a route alignment. The route mileage and GPS is not matched to previous cycles whenever it is determined that a road length and GPS needs to be updated. When this happens the GPS and length is updated to the cycle that displays the change, and that collection cycle is used as the matching cycle in subsequent collections of the road. Thus, the Cycle 6 GIS could be either the survey length collected in Cycle 4, Cycle 5, or Cycle 6 and therefore, may not match the survey milepost displayed in the latest Cycle 6 DCV video which is viewable in ***PathView VO***.

The features inventories and road logs collected on NPS routes contain mileposts that are determined from the corresponding cycle that the GPS is matched to. Therefore, the mileposts contained in the Cycle 4 or 5 features inventories or the Cycle 6 road logs may not exactly match the survey milepost collected in the latest Cycle 6 video of the road.

Locating Mile Marker Signs

For routes that have mile marker signs along them, the milepost reported by RIP will most likely not line up exactly with the sign located in the field. This could be happening for many reasons, most likely due to either the error falling within the acceptable calibration range of the vehicle, or the level of accuracy that the mile marker signs were placed in the field.

Because mile marker signs are important features in many project plans and location descriptions, RIP is reporting locations of mile marker signs in three ways in Cycle 6:

1. Mileposts from Cycle 6 GIS: the official RIP milepost taken from the features inventories and the matching GPS/mileage cycle as described above. This is the milepost that should be used on project plans and when finding locations in the field

2. Mileposts from Cycle 6 Video: milepost shown to help locate the mile marker sign in the latest ***PathView VO*** video.

3. Latitude / Longitude: a constant way of locating a mile marker sign so long as the park has not moved the sign

The mileposts from Cycle 6 Video and GIS should be nearly the same, but on longer roads it has been observed that the Video milepost deviates more from the official GIS milepost that comes from the matching cycle.

CRLA: Route Milepost Log

ROUTE 0010: NORTH ENTRANCE ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0013 (EAST RIM DRIVE)
0.00	0.00	INTERSECTION	N/A	ROUTE 0014 (WEST RIM DRIVE)
2.53	2.53	INTERSECTION	L	ROUTE 0908 (PACIFIC CREST TRAIL PARKING A)
4.89	4.89	INTERSECTION	L	ROUTE 0909 (PUMICE DESERT)
4.92	4.92	INTERSECTION	L	ROUTE 0909 (PUMICE DESERT)
8.29	8.29	INTERSECTION	R	ROUTE 0208 (NORTH ENTRANCE TURNAROUND)
8.31	8.31	INTERSECTION	R	ROUTE 0208 (NORTH ENTRANCE TURNAROUND)
8.31	8.31	INTERSECTION	L	ROUTE 0949 (NORTH ENTRANCE RESTROOM PARKING)
9.15	9.15	PARK BOUNDARY	N/A	NORTH PARK BOUNDARY

CRLA: Route Milepost Log

ROUTE 0011: CRATER LAKE HIGHWAY

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	PAVED ROUTE (OREGON STATE HIGHWAY 62 (CRATER LAKE HIGHWAY) / NON NPS)
0.00	0.00	PARK BOUNDARY	N/A	WEST PARK BOUNDARY
1.00	1.00	INTERSECTION	R	ROUTE 0951 (WEST ENTRANCE PARKING AREA)
6.90	6.90	INTERSECTION	L	ROUTE 0910 (PACIFIC CREST TRAIL PULLOUT)
6.92	6.92	INTERSECTION	R	ROUTE 0911 (PACIFIC CREST TRAIL PARKING C)
7.75	7.75	INTERSECTION	L	ROUTE 0012 (MUNSON VALLEY ROAD)
8.35	8.35	INTERSECTION	R	ROUTE 0400 (MAZAMA DORMITORIES ACCESS)
8.77	8.77	INTERSECTION	L	ROUTE 0914 (FOSSIL FUMAROLES - GODFREY GLEN OVERLOOK)
9.84	9.84	INTERSECTION	R	ROUTE 0406 (POLE CREEK ACCESS ROAD)
10.18	10.18	INTERSECTION	L	ROUTE 0915 (LODGE POLE PICNIC AREA)
10.40	10.40	INTERSECTION	L	ROUTE 0915 (LODGE POLE PICNIC AREA)
12.40	12.40	INTERSECTION	L	ROUTE 0916 (ANNIE FALLS PICNIC AREA)
12.57	12.57	INTERSECTION	L	ROUTE 0916 (ANNIE FALLS PICNIC AREA)
13.23	13.23	INTERSECTION	L	ROUTE 0917 (NO NAME PICNIC AREA)
13.29	13.29	INTERSECTION	L	ROUTE 0917 (NO NAME PICNIC AREA)
16.79	16.79	INTERSECTION	L	ROUTE 0918 (PONDEROSA PICNIC AREA)
17.02	17.02	INTERSECTION	L	ROUTE 0918 (PONDEROSA PICNIC AREA)
17.34	17.34	INTERSECTION	R	ROUTE 0405 (SOUTH YARD EQUIPMENT PARKING AREA)
17.43	17.43	INTERSECTION	N/A	PAVED ROUTE (OREGON STATE HIGHWAY 62 (CRATER LAKE HIGHWAY) / NON NPS)
17.43	17.43	PARK BOUNDARY	N/A	SOUTH PARK BOUNDARY

Data Collected on 7/2015

CRLA: Route Milepost Log

ROUTE 0012: MUNSON VALLEY ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0011 (CRATER LAKE HIGHWAY)
0.00	0.00	INTERSECTION	L	ROUTE 0011 (CRATER LAKE HIGHWAY)
0.07	0.07	INTERSECTION	R	ROUTE 0947DZ (ANNIE CREEK RESTAURANT PARKING)
0.16	0.16	INTERSECTION	R	ROUTE 0947DZ (ANNIE CREEK RESTAURANT PARKING)
0.30	0.30	INTERSECTION	R	ROUTE 0200 (MAZAMA VILLAGE ENTRANCE ROAD)
0.47	0.49	BRIDGE	N/A	9320-001 (ANNIE CREEK BRIDGE)
1.30	1.30	INTERSECTION	L	ROUTE 0919 (GOODBYE PICNIC AREA)
1.31	1.35	BRIDGE	N/A	9320-002 (GOODBYE CREEK BRIDGE)
1.67	1.67	INTERSECTION	R	ROUTE 0920 (GODFREY GLEN TRAIL PARKING)
1.78	1.78	INTERSECTION	R	ROUTE 0920 (GODFREY GLEN TRAIL PARKING)
2.71	2.71	INTERSECTION	R	UNPAVED ROUTE
3.62	3.62	INTERSECTION	L	ROUTE 0948 (EQUIPMENT PARKING (BALL DIAMOND))
3.73	3.73	INTERSECTION	L	ROUTE 0402AZ (HEADQUARTERS MAINTENANCE AREA)
3.73	3.73	INTERSECTION	R	ROUTE 0401AZ (HEADQUARTERS RESIDENCE AREA OUTER LOOP ROAD)
3.90	3.90	INTERSECTION	R	ROUTE 0013 (EAST RIM DRIVE)
3.98	3.98	INTERSECTION	L	ROUTE 0921 (HEADQUARTERS VISITOR CENTER PARKING)
6.72	6.72	INTERSECTION	L	ROUTE 0014 (WEST RIM DRIVE)
6.85	6.85	INTERSECTION	L	ROUTE 0922BZ (CAFETERIA AND GIFT SHOP PARKING B)
6.85	6.85	INTERSECTION	R	ROUTE 0922AZ (CAFETERIA AND GIFT SHOP PARKING A)
6.95	6.95	INTERSECTION	R	ROUTE 0923EZ (VISITOR CENTER AND SINNOTT OVERLOOK PARKING E)
6.96	6.96	INTERSECTION	L	ROUTE 0923DZ (VISITOR CENTER AND SINNOTT OVERLOOK PARKING D)
7.08	7.08	INTERSECTION	R	ROUTE 0923BZ (VISITOR CENTER AND SINNOTT OVERLOOK PARKING B)
7.14	7.14	INTERSECTION	L	ROUTE 0923CZ (VISITOR CENTER AND SINNOTT OVERLOOK PARKING C)
7.16	7.16	INTERSECTION	R	ROUTE 0207AZ (PICNIC HILL LOOP A)
7.18	7.18	INTERSECTION	R	ROUTE 0923AZ (VISITOR CENTER AND SINNOTT OVERLOOK PARKING A)
7.21	7.21	INTERSECTION	N/A	ROUTE 0924 (CRATER LAKE LODGE PARKING)

Data Collected on 7/2015

CRLA: Route Milepost Log

ROUTE 0013: EAST RIM DRIVE

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0010 (NORTH ENTRANCE ROAD)
0.00	0.00	INTERSECTION	R	ROUTE 0014 (WEST RIM DRIVE)
0.03	0.03	INTERSECTION	R	ROUTE 0907 (NORTH JUNCTION PARKING)
2.50	2.50	INTERSECTION	R	UNPAVED ROUTE
2.53	2.53	INTERSECTION	R	UNPAVED ROUTE
3.63	3.63	INTERSECTION	L	ROUTE 0926 (CLEETWOOD (PUMICE POINT) PICNIC AREA)
3.67	3.67	INTERSECTION	L	ROUTE 0926 (CLEETWOOD (PUMICE POINT) PICNIC AREA)
4.53	4.53	INTERSECTION	L	ROUTE 0927 (CLEETWOOD TRAIL PARKING)
4.71	4.71	INTERSECTION	R	ROUTE 0928 (THE CLEETWOOD OVER FLOW PARKING)
7.83	7.83	INTERSECTION	R	ROUTE 0929 (LOWER SKELL OVERLOOK)
7.86	7.86	INTERSECTION	R	ROUTE 0929 (LOWER SKELL OVERLOOK)
7.96	7.96	INTERSECTION	R	ROUTE 0930 (OVERLOOK PARKING)
7.99	7.99	INTERSECTION	R	ROUTE 0930 (OVERLOOK PARKING)
8.46	8.46	INTERSECTION	R	ROUTE 0931 (SKELL HEAD PICNIC AREA)
8.62	8.62	INTERSECTION	R	ROUTE 0932 (SKELL HEAD OVERLOOK)
8.70	8.70	INTERSECTION	R	ROUTE 0932 (SKELL HEAD OVERLOOK)
10.85	10.85	INTERSECTION	L	ROUTE 0933 (WHITEBARK PICNIC AREA)
10.97	10.97	INTERSECTION	L	ROUTE 0934 (MOUNT SCOTT TRAIL PARKING)
11.10	11.10	INTERSECTION	R	ROUTE 0201AZ (CLOUDCAP VIEWPOINT ROAD)
11.29	11.29	INTERSECTION	R	ROUTE 0201BZ (CLOUDCAP VIEWPOINT ROAD SPUR)
12.37	12.37	INTERSECTION	R	ROUTE 0936 (PUMICE CASTLE)
12.60	12.60	INTERSECTION	R	ROUTE 0937 (CASTLE ROCK OVERLOOK)
12.67	12.67	INTERSECTION	R	ROUTE 0937 (CASTLE ROCK OVERLOOK)
12.81	12.81	INTERSECTION	R	ROUTE 0938 (SENTINEL POINT OVERLOOK)
12.87	12.87	INTERSECTION	R	ROUTE 0938 (SENTINEL POINT OVERLOOK)
14.77	14.77	INTERSECTION	R	ROUTE 0939 (PHANTOM SHIP OVERLOOK)
14.86	14.86	INTERSECTION	R	ROUTE 0939 (PHANTOM SHIP OVERLOOK)
14.92	14.92	INTERSECTION	L	ROUTE 0100 (PINNACLES ROAD)
18.84	18.84	INTERSECTION	R	ROUTE 0941 (SUN NOTCH PARKING)

Data Collected on 7/2015

CRLA: Route Milepost Log

ROUTE 0013: EAST RIM DRIVE

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
20.16	20.16	INTERSECTION	L	ROUTE 0204 (VIDAE FALLS PICNIC AREA LOOP)
20.21	20.21	INTERSECTION	R	ROUTE 0942 (VIDAE FALLS PARKING)
22.85	22.85	INTERSECTION	R	ROUTE 0944 (CASTLE CREST PARKING)
23.19	23.19	INTERSECTION	R	ROUTE 0012 (MUNSON VALLEY ROAD)
23.19	23.19	INTERSECTION	L	ROUTE 0012 (MUNSON VALLEY ROAD)

CRLA: Route Milepost Log

ROUTE 0014: WEST RIM DRIVE

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0012 (MUNSON VALLEY ROAD)
0.00	0.00	INTERSECTION	L	ROUTE 0012 (MUNSON VALLEY ROAD)
1.10	1.10	INTERSECTION	R	ROUTE 0900 (DISCOVERY POINT)
2.39	2.39	INTERSECTION	R	ROUTE 0902 (DISCOVERY POINT PICNIC AREA)
3.00	3.00	INTERSECTION	L	ROUTE 0903 (UNION PEAK OVERLOOK)
3.76	3.76	INTERSECTION	R	ROUTE 0904 (WATCHMAN OVERLOOK PARKING)
3.81	3.81	INTERSECTION	R	ROUTE 0904 (WATCHMAN OVERLOOK PARKING)
4.46	4.46	INTERSECTION	L	ROUTE 0905 (DIAMOND LAKE OVERLOOK)
5.70	5.70	INTERSECTION	R	ROUTE 0906 (GLACIAL VALLEYS)
5.86	5.86	INTERSECTION	R	ROUTE 0907 (NORTH JUNCTION PARKING)
5.92	5.92	INTERSECTION	R	ROUTE 0013 (EAST RIM DRIVE)
5.92	5.92	INTERSECTION	N/A	ROUTE 0010 (NORTH ENTRANCE ROAD)

CRLA: Route Milepost Log

ROUTE 0100: PINNACLES ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0013 (EAST RIM DRIVE)
0.00	0.00	INTERSECTION	L	ROUTE 0013 (EAST RIM DRIVE)
1.18	1.18	INTERSECTION	L	ROUTE 0956 (PLAIKNI TRAIL PARKING)
1.28	1.28	INTERSECTION	L	UNPAVED ROUTE
2.69	2.69	INTERSECTION	R	UNPAVED ROUTE
3.13	3.13	INTERSECTION	R	ROUTE 0206 (GREYBACK DRIVE)
5.92	5.92	INTERSECTION	N/A	ROUTE 0940 (THE PINNACLES OVERLOOK)
5.92	5.92	INTERSECTION	L	ROUTE 0940 (THE PINNACLES OVERLOOK)

CRLA: Route Milepost Log

ROUTE 0200: MAZAMA VILLAGE ENTRANCE ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0012 (MUNSON VALLEY ROAD)
0.00	0.00	INTERSECTION	R	ROUTE 0012 (MUNSON VALLEY ROAD)
0.05	0.05	INTERSECTION	L	UNPAVED ROUTE
0.06	0.06	ONE-WAY START	N/A	N/A
0.13	0.13	INTERSECTION	L	ROUTE 0200 (MAZAMA VILLAGE ENTRANCE ROAD)
0.13	0.13	INTERSECTION	L	ROUTE 0200 (MAZAMA VILLAGE ENTRANCE ROAD)
0.15	0.15	INTERSECTION	L	ROUTE 0947AZ (MAZAMA VILLAGE STORE PARKING A)
0.17	0.17	INTERSECTION	L	ROUTE 0947AZ (MAZAMA VILLAGE STORE PARKING A)
0.18	0.18	INTERSECTION	R	ROUTE 0947CZ (MAZAMA VILLAGE STORE PARKING C)
0.22	0.22	INTERSECTION	L	ROUTE 0947AZ (MAZAMA VILLAGE STORE PARKING A)
0.22	0.22	INTERSECTION	R	ROUTE 0947BZ (MAZAMA VILLAGE STORE PARKING B)
0.26	0.26	INTERSECTION	L	ROUTE 0947AZ (MAZAMA VILLAGE STORE PARKING A)
0.28	0.28	INTERSECTION	R	ROUTE 0202AZ (MAZAMA MOTOR LODGE LOOP ROAD)
0.31	0.31	INTERSECTION	L	ROUTE 0947AZ (MAZAMA VILLAGE STORE PARKING A)
0.31	0.31	ONE-WAY END	N/A	N/A
0.33	0.33	INTERSECTION	R	ROUTE 0203G (MAZAMA CAMPGROUND LOOP G)
0.34	0.34	INTERSECTION	R	ROUTE 0203B (MAZAMA CAMPGROUND LOOP B)
0.38	0.38	INTERSECTION	R	ROUTE 0203A (MAZAMA CAMPGROUND LOOP A)
0.45	0.45	INTERSECTION	L	ROUTE 0947AZ (MAZAMA VILLAGE STORE PARKING A)
0.46	0.46	INTERSECTION	N/A	ROUTE 0200 (MAZAMA VILLAGE ENTRANCE ROAD)
0.46	0.46	INTERSECTION	L	ROUTE 0200 (MAZAMA VILLAGE ENTRANCE ROAD)

CRLA: Route Milepost Log

ROUTE 0201AZ: CLOUDCAP VIEWPOINT ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0013 (EAST RIM DRIVE)
0.00	0.00	INTERSECTION	N/A	ROUTE 0013 (EAST RIM DRIVE)
0.19	0.19	INTERSECTION	L	ROUTE 0201BZ (CLOUDCAP VIEWPOINT ROAD SPUR)
0.26	0.26	INTERSECTION	R	ROUTE 0945 (MOUNT SCOTT OVERLOOK)
1.03	1.03	ONE-WAY START	N/A	N/A
1.03	1.03	INTERSECTION	L	ROUTE 0201AZ (CLOUDCAP VIEWPOINT ROAD)
1.11	1.11	INTERSECTION	R	ROUTE 0935 (CLOUDCAP OVERLOOK)
1.17	1.17	INTERSECTION	R	ROUTE 0201AZ (CLOUDCAP VIEWPOINT ROAD)
1.17	1.17	ONE-WAY END	N/A	N/A
1.17	1.17	INTERSECTION	L	ROUTE 0201AZ (CLOUDCAP VIEWPOINT ROAD)

CRLA: Route Milepost Log

ROUTE 0201BZ: CLOUDCAP VIEWPOINT ROAD SPUR

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0013 (EAST RIM DRIVE)
0.00	0.00	INTERSECTION	N/A	ROUTE 0013 (EAST RIM DRIVE)
0.16	0.16	INTERSECTION	N/A	ROUTE 0201AZ (CLOUDCAP VIEWPOINT ROAD)
0.16	0.16	INTERSECTION	R	ROUTE 0201AZ (CLOUDCAP VIEWPOINT ROAD)

CRLA: Route Milepost Log

ROUTE 0202AZ: MAZAMA MOTOR LODGE LOOP ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 6.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0200 (MAZAMA VILLAGE ENTRANCE ROAD)
0.00	0.00	INTERSECTION	L	ROUTE 0200 (MAZAMA VILLAGE ENTRANCE ROAD)
0.02	0.02	ONE-WAY START	N/A	N/A
0.02	0.02	INTERSECTION	L	ROUTE 0202BZ (MAZAMA MOTOR LODGE ROAD)
0.06	0.06	INTERSECTION	R	ROUTE 0955AZ (MOTOR LODGE PARKING A)
0.11	0.11	ONE-WAY END	N/A	N/A
0.11	0.11	INTERSECTION	L	ROUTE 0202BZ (MAZAMA MOTOR LODGE ROAD)
0.21	0.21	ONE-WAY START	N/A	N/A
0.21	0.21	INTERSECTION	L	ROUTE 0202AZ (MAZAMA MOTOR LODGE LOOP ROAD)
0.26	0.26	INTERSECTION	R	ROUTE 0955BZ (MOTOR LODGE PARKING B)
0.30	0.30	INTERSECTION	R	ROUTE 0955CZ (MOTOR LODGE PARKING C)
0.40	0.40	ONE-WAY END	N/A	N/A
0.42	0.42	INTERSECTION	L	ROUTE 0202AZ (MAZAMA MOTOR LODGE LOOP ROAD)
0.42	0.42	INTERSECTION	R	ROUTE 0202AZ (MAZAMA MOTOR LODGE LOOP ROAD)

CRLA: Route Milepost Log

ROUTE 0202BZ: MAZAMA MOTOR LODGE ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 6.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	R	ROUTE 0202AZ (MAZAMA MOTOR LODGE LOOP ROAD)
0.00	0.00	INTERSECTION	L	ROUTE 0202AZ (MAZAMA MOTOR LODGE LOOP ROAD)
0.09	0.09	INTERSECTION	L	ROUTE 0202AZ (MAZAMA MOTOR LODGE LOOP ROAD)
0.09	0.09	ONE-WAY END	N/A	N/A
0.09	0.09	INTERSECTION	N/A	ROUTE 0202AZ (MAZAMA MOTOR LODGE LOOP ROAD)

CRLA: Route Milepost Log

ROUTE 0203A: MAZAMA CAMPGROUND LOOP A

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0200 (MAZAMA VILLAGE ENTRANCE ROAD)
0.00	0.00	INTERSECTION	L	ROUTE 0200 (MAZAMA VILLAGE ENTRANCE ROAD)
0.01	0.01	INTERSECTION	R	ROUTE 0203A (MAZAMA CAMPGROUND LOOP A)
0.01	0.01	ONE-WAY START	N/A	N/A
0.16	0.16	ONE-WAY END	N/A	N/A
0.16	0.16	INTERSECTION	R	ROUTE 0203A (MAZAMA CAMPGROUND LOOP A)
0.16	0.16	INTERSECTION	N/A	ROUTE 0203A (MAZAMA CAMPGROUND LOOP A)

CRLA: Route Milepost Log

ROUTE 0203B: MAZAMA CAMPGROUND LOOP B

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0200 (MAZAMA VILLAGE ENTRANCE ROAD)
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	R	ROUTE 0200 (MAZAMA VILLAGE ENTRANCE ROAD)
0.18	0.18	ONE-WAY END	N/A	N/A
0.18	0.18	INTERSECTION	R	ROUTE 0203G (MAZAMA CAMPGROUND LOOP G)
0.18	0.18	INTERSECTION	L	ROUTE 0203G (MAZAMA CAMPGROUND LOOP G)

CRLA: Route Milepost Log

ROUTE 0203C: MAZAMA CAMPGROUND LOOP C

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0203G (MAZAMA CAMPGROUND LOOP G)
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	N/A	ROUTE 0947EZ (MAZAMA DUMP STATION)
0.00	0.00	INTERSECTION	L	ROUTE 0203G (MAZAMA CAMPGROUND LOOP G)
0.26	0.26	INTERSECTION	N/A	ROUTE 0947EZ (MAZAMA DUMP STATION)
0.26	0.26	INTERSECTION	R	ROUTE 0203G (MAZAMA CAMPGROUND LOOP G)
0.26	0.26	ONE-WAY END	N/A	N/A
0.26	0.26	INTERSECTION	L	ROUTE 0203G (MAZAMA CAMPGROUND LOOP G)

CRLA: Route Milepost Log

ROUTE 0203D: MAZAMA CAMPGROUND LOOP D

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0203G (MAZAMA CAMPGROUND LOOP G)
0.00	0.00	INTERSECTION	L	ROUTE 0203G (MAZAMA CAMPGROUND LOOP G)
0.00	0.00	ONE-WAY START	N/A	N/A
0.36	0.36	ONE-WAY END	N/A	N/A
0.36	0.36	INTERSECTION	L	ROUTE 0203G (MAZAMA CAMPGROUND LOOP G)
0.36	0.36	INTERSECTION	R	ROUTE 0203G (MAZAMA CAMPGROUND LOOP G)

CRLA: Route Milepost Log

ROUTE 0203E: MAZAMA CAMPGROUND LOOP E

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0203G (MAZAMA CAMPGROUND LOOP G)
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	R	ROUTE 0203G (MAZAMA CAMPGROUND LOOP G)
0.41	0.41	INTERSECTION	L	ROUTE 0203G (MAZAMA CAMPGROUND LOOP G)
0.41	0.41	INTERSECTION	R	ROUTE 0203G (MAZAMA CAMPGROUND LOOP G)
0.41	0.41	ONE-WAY END	N/A	N/A

CRLA: Route Milepost Log

ROUTE 0203F: MAZAMA CAMPGROUND LOOP F

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0203G (MAZAMA CAMPGROUND LOOP G)
0.00	0.00	ONE-WAY START	N/A	N/A
0.00	0.00	INTERSECTION	L	ROUTE 0203G (MAZAMA CAMPGROUND LOOP G)
0.04	0.04	INTERSECTION	R	ROUTE 0203G (MAZAMA CAMPGROUND LOOP G)
0.34	0.34	ONE-WAY END	N/A	N/A
0.34	0.34	INTERSECTION	R	ROUTE 0203G (MAZAMA CAMPGROUND LOOP G)
0.34	0.34	INTERSECTION	L	ROUTE 0203G (MAZAMA CAMPGROUND LOOP G)

CRLA: Route Milepost Log

ROUTE 0203G: MAZAMA CAMPGROUND LOOP G

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0200 (MAZAMA VILLAGE ENTRANCE ROAD)
0.00	0.00	INTERSECTION	N/A	ROUTE 0200 (MAZAMA VILLAGE ENTRANCE ROAD)
0.00	0.00	INTERSECTION	L	ROUTE 0203B (MAZAMA CAMPGROUND LOOP B)
0.04	0.04	INTERSECTION	R	ROUTE 0947EZ (MAZAMA DUMP STATION)
0.04	0.04	INTERSECTION	L	ROUTE 0203C (MAZAMA CAMPGROUND LOOP C)
0.07	0.07	INTERSECTION	L	ROUTE 0203C (MAZAMA CAMPGROUND LOOP C)
0.07	0.07	INTERSECTION	R	ROUTE 0947EZ (MAZAMA DUMP STATION)
0.11	0.11	INTERSECTION	L	ROUTE 0203D (MAZAMA CAMPGROUND LOOP D)
0.14	0.14	INTERSECTION	L	ROUTE 0203D (MAZAMA CAMPGROUND LOOP D)
0.17	0.17	INTERSECTION	L	ROUTE 0203E (MAZAMA CAMPGROUND LOOP E)
0.19	0.19	INTERSECTION	L	ROUTE 0203E (MAZAMA CAMPGROUND LOOP E)
0.25	0.25	INTERSECTION	L	ROUTE 0203F (MAZAMA CAMPGROUND LOOP F)
0.30	0.30	INTERSECTION	L	ROUTE 0203F (MAZAMA CAMPGROUND LOOP F)
0.30	0.30	ONE-WAY START	N/A	N/A
0.67	0.67	INTERSECTION	R	ROUTE 0203F (MAZAMA CAMPGROUND LOOP F)
0.67	0.67	INTERSECTION	L	ROUTE 0203F (MAZAMA CAMPGROUND LOOP F)
0.67	0.67	ONE-WAY END	N/A	N/A

ROUTE 0204: VIDAE FALLS PICNIC AREA LOOP

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0013 (EAST RIM DRIVE)
0.00	0.00	INTERSECTION	L	ROUTE 0013 (EAST RIM DRIVE)
0.23	0.23	INTERSECTION	R	ROUTE 0943 (CRATER PEAK TRAIL PARKING)
0.23	0.23	INTERSECTION	L	ROUTE 0206 (GREYBACK DRIVE)
0.23	0.23	INTERSECTION	N/A	ROUTE 0943 (CRATER PEAK TRAIL PARKING)

CRLA: Route Milepost Log

ROUTE 0208: NORTH ENTRANCE TURNAROUND

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 6.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0010 (NORTH ENTRANCE ROAD)
0.00	0.00	INTERSECTION	R	ROUTE 0010 (NORTH ENTRANCE ROAD)
0.03	0.03	INTERSECTION	L	ROUTE 0010 (NORTH ENTRANCE ROAD)
0.03	0.03	INTERSECTION	R	ROUTE 0010 (NORTH ENTRANCE ROAD)

CRLA: Route Milepost Log

ROUTE 0400: MAZAMA DORMITORIES ACCESS

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0011 (CRATER LAKE HIGHWAY)
0.00	0.00	INTERSECTION	R	ROUTE 0011 (CRATER LAKE HIGHWAY)
0.08	0.08	INTERSECTION	L	UNPAVED ROUTE
0.13	0.13	INTERSECTION	L	ROUTE 0400 (MAZAMA DORMITORIES ACCESS)
0.16	0.16	INTERSECTION	L	ROUTE 0912 (MAZAMA DORM, BUILDING A, REAR PARKING)
0.19	0.19	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
0.38	0.38	INTERSECTION	R	ROUTE 0913 (MAZAMA DORM EMPLOYEE PARKING AND RV)
0.40	0.40	INTERSECTION	R	ROUTE 0913 (MAZAMA DORM EMPLOYEE PARKING AND RV)
0.43	0.43	INTERSECTION	R	ROUTE 0400 (MAZAMA DORMITORIES ACCESS)
0.43	0.43	INTERSECTION	L	ROUTE 0400 (MAZAMA DORMITORIES ACCESS)

CRLA: Route Milepost Log

ROUTE 0401AZ: HEADQUARTERS RESIDENCE AREA OUTER LOOP ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0012 (MUNSON VALLEY ROAD)
0.00	0.00	INTERSECTION	L	ROUTE 0012 (MUNSON VALLEY ROAD)
0.00	0.00	INTERSECTION	N/A	ROUTE 0402AZ (HEADQUARTERS MAINTENANCE AREA)
0.04	0.04	INTERSECTION	L	ROUTE 0401AZ (HEADQUARTERS RESIDENCE AREA OUTER LOOP ROAD)
0.05	0.05	INTERSECTION	L	ROUTE 0401BZ (HEADQUARTERS RESIDENCE AREA INNER LOOP ROAD)
0.33	0.33	INTERSECTION	L	ROUTE 0401BZ (HEADQUARTERS RESIDENCE AREA INNER LOOP ROAD)
0.37	0.37	INTERSECTION	L	ROUTE 0401CZ (HEADQUARTERS RESIDENCE AREA CUT THROUGH ROAD)
0.48	0.48	INTERSECTION	R	ROUTE 0401AZ (HEADQUARTERS RESIDENCE AREA OUTER LOOP ROAD)
0.48	0.48	INTERSECTION	N/A	ROUTE 0401AZ (HEADQUARTERS RESIDENCE AREA OUTER LOOP ROAD)
0.48	0.48	INTERSECTION	L	ROUTE 0401BZ (HEADQUARTERS RESIDENCE AREA INNER LOOP ROAD)

CRLA: Route Milepost Log

ROUTE 0401BZ: HEADQUARTERS RESIDENCE AREA INNER LOOP ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0401AZ (HEADQUARTERS RESIDENCE AREA OUTER LOOP ROAD)
0.00	0.00	INTERSECTION	N/A	ROUTE 0401AZ (HEADQUARTERS RESIDENCE AREA OUTER LOOP ROAD)
0.00	0.00	INTERSECTION	L	ROUTE 0401AZ (HEADQUARTERS RESIDENCE AREA OUTER LOOP ROAD)
0.06	0.06	INTERSECTION	L	ROUTE 0401CZ (HEADQUARTERS RESIDENCE AREA CUT THROUGH ROAD)
0.14	0.14	INTERSECTION	R	ROUTE 0401AZ (HEADQUARTERS RESIDENCE AREA OUTER LOOP ROAD)
0.14	0.14	INTERSECTION	L	ROUTE 0401AZ (HEADQUARTERS RESIDENCE AREA OUTER LOOP ROAD)

CRLA: Route Milepost Log

ROUTE 0401CZ: HEADQUARTERS RESIDENCE AREA CUT THROUGH ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0401AZ (HEADQUARTERS RESIDENCE AREA OUTER LOOP ROAD)
0.00	0.00	INTERSECTION	L	ROUTE 0401AZ (HEADQUARTERS RESIDENCE AREA OUTER LOOP ROAD)
0.04	0.04	INTERSECTION	R	ROUTE 0401BZ (HEADQUARTERS RESIDENCE AREA INNER LOOP ROAD)
0.04	0.04	INTERSECTION	L	ROUTE 0401BZ (HEADQUARTERS RESIDENCE AREA INNER LOOP ROAD)

CRLA: Route Milepost Log

ROUTE 0402BZ: HEADQUARTERS RESIDENCE AREA

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 6.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	ROUTE 0402AZ (HEADQUARTERS MAINTENANCE AREA)
0.02	0.02	INTERSECTION	L	ROUTE 0402BZ (HEADQUARTERS RESIDENCE AREA)
0.33	0.33	INTERSECTION	L	ROUTE 0402BZ (HEADQUARTERS RESIDENCE AREA)
0.33	0.33	INTERSECTION	R	ROUTE 0402BZ (HEADQUARTERS RESIDENCE AREA)

CRLA: Route Milepost Log

ROUTE 0403: CRATER LAKE LODGE RESIDENCE ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 4.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	ROUTE 0924 (CRATER LAKE LODGE PARKING)
0.12	0.12	INTERSECTION	N/A	ROUTE 0925 (CRATER LAKE LODGE RESIDENCE PARKING)

CRLA: Route Milepost Log

ROUTE 0404AZ: HEADQUARTERS RESIDENCE ROAD

Road logs are verified in Cycle 6 and mileposts for this route are matched to GPS collected in Cycle 6.

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	ROUTE 0921 (HEADQUARTERS VISITOR CENTER PARKING)
0.02	0.02	INTERSECTION	R	ROUTE 0946 (ADMINISTRATION PARKING)
0.08	0.08	INTERSECTION	L	ROUTE 0404CZ (HEADQUARTERS RESIDENCE STREET)
0.19	0.19	INTERSECTION	R	ROUTE 0404BZ (HEADQUARTERS RESIDENCE LOOP)
0.26	0.26	INTERSECTION	R	ROUTE 0404BZ (HEADQUARTERS RESIDENCE LOOP)
0.30	0.30	INTERSECTION	N/A	TO END

Section 8
Appendix

Crater Lake National Park

Federal Lands Highway
Road Inventory Program

Improvements to the RIP Index Equations and Determination of PCR

In 2005, the Federal Highway Administration (FHWA) began implementing the use of a Pavement Management System (PMS) to assist the National Park Service (NPS) in prioritizing Pavement Maintenance and Rehabilitation activities. The PMS used by FHWA is the Highway Pavement Management Application (HPMA) which has the ability to store inventory and condition data from the Road Inventory Program (RIP) and forecast future performance using prediction models. Outputs include performance and condition reports at the National, Region, Park, or Route level. A regional prioritized list and optimization have been produced for most regions and the Federal Highway Deferred Maintenance is calculated via the HPMA as well.

In an effort to improve the accuracy of treatment recommendations and pavement condition descriptions the distresses and indexes that comprise the Pavement Condition Rating (PCR), an extensive study was completed throughout 2010 that has resulted in changes to the RIP condition reporting method and specifically, the calculation of PCR. It was determined that a better representation of PCR could be achieved by modifying the relative impact certain distresses would have on the overall rating.

Through the use of HPMA data, it was noted that false failure indicators existed with the existing PCR model, and that it would be necessary to reduce their impact. The distresses affected in this way were Rutting and Roughness. Conversely, experience showed that roadways with extensive cracking present were often shown to have a high PCR. Therefore, the crack index models were adjusted to be more sensitive to changes in crack severity or quantity. It was also determined that these issues were not due to a problem with data acquisition (i.e. the RIP "van"), but with the way the collected data was processed. The final change was to provide guidance on when to use the Roughness Condition Index (RCI) in the PCR calculation. Roughness data is of little value to determining overall condition on routes that, due to their length or geometrics, have lower vehicle operating speeds. Therefore, in Cycle 5, only routes that have lengths of one half mile or greater and posted speed limits of 25 mph or greater will have RCI reported and included in the PCR calculations.

Additionally, methodologies were updated in 2013 for Manually Rated Routes (paved routes that the collection vehicle is unable to drive) as well as Parking Areas to provide more accurate condition data to the HPMA. These updated methodologies allow for the efficient assessment of pavement conditions using a visual inspection method to denote specific distresses. These distresses are indicative of current conditions, the causes for current and future deterioration, and identify the level of targeted repair and rehabilitation practices required.

The changes that were implemented were endorsed by management at both the FHWA and NPS. In order to show the effectiveness of these changes, several sites were ground truth tested in early 2014 to ensure that an improvement was achieved between the relationship of PCR and the actual Maintenance and Rehabilitation needs that were represented. The changes will allow greater use of RIP and HPMA data for not simply condition data reporting, but also as a reliable tool for project identification and selection.

Description of the Rating System

The Federal Highway Administration, National Park Service Road Inventory Program (NPS-RIP), collects roadway condition data on paved surfaces (asphalt, concrete, brick, and cobblestone) on roads, parkways, and parking areas in national parks nationwide. The road surface condition data is collected using an automated Data Collection Vehicle (DCV) and manually using Manually Rated Route (MRR) procedures. Roads having brick or cobblestone surfacing are not normally surveyed with the DCV, but are manually rated for condition rating.

The FHWA RIP is implemented based on the premise that an accurate pavement surface condition assessment can be accomplished using automated crack detection technology as applied to digital images. Various methods of pavement condition assessment have been developed over the years with varying degrees of accuracy and acceptance. The use of digital photography to record pavement images and subsequent crack detection and classification has undergone continuous improvements over the past decade. Digital cameras with increasingly superior resolution and high definition have become more affordable, and the proprietary programming code and algorithms have been improved in crack detection software.

With the use of quality digital photography and automated crack detection software, FHWA RIP is tasked with executing a pavement condition assessment on a network of roughly 5,700 miles of National Park Service roads and parkways. Because a subset of roads will be collected multiple times this cycle, the total collection length will be around 13,000 miles. Foremost in setting up the basis of pavement distress identification is employing the distress identification protocols used by FHWA. There is no single distress identification system that is universal among entities conducting a program of distress identification. For the purpose of the NPS RIP, FHWA employs distress identification protocols that are specific to this program.

FHWA has referenced the "*Distress Identification Manual for the Long-Term Pavement Performance Program", Publication No. FHWA-RD 03-031, June 2003,* as the point-of- reference for distress types on NPS pavement. In truth, the FHWA RIP distress types are similar to those described in the LTPP manual with some modifications. This document, "*Distress Identification Manual for the NPS Road Inventory Program, Cycle 6, 2014-2020"* was developed using the "*Distress Identification Manual for the Long-Term Pavement Performance Program"* as a guideline. Definitions of severity levels based on crack width contained in this document adhere to the LTPP Distress ID Manual. Modifications have been made to the definition of Alligator and Longitudinal Cracking and determination of Alligator Cracking severity. This manual also addresses Rutting and Roughness and its application to RIP.

Cycle 6 has launched in the spring of 2014 and will again comprise all parks, large and small, that are served by paved roads and/or parking areas. For Cycle 6, roughly 333 large and small parks will have all paved routes and parking areas collected at least once in the cycle, some will have multiple collections depending on the size of the park and the functional class of the route.

This "*Distress Identification Manual for the NPS Road Inventory Program, Cycle 6, 2014-2020*" will be used as a reference resource in crack detection and classification, determination of distress severity and extent, and in the calculation of distress index values for the FHWA RIP Cycle 6.

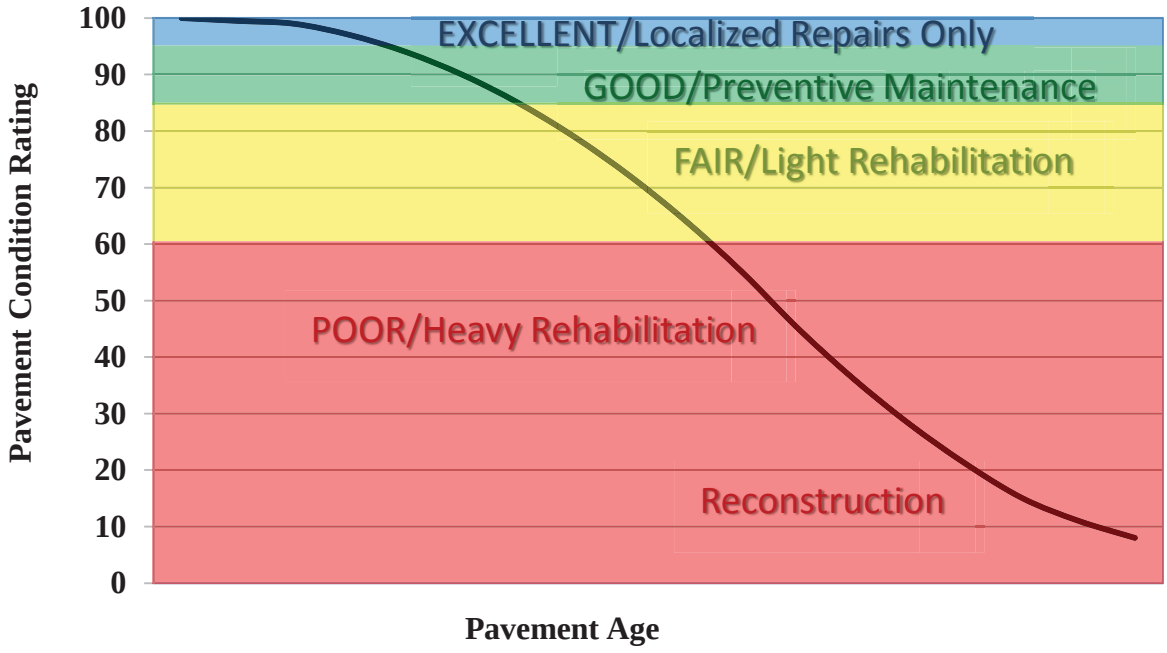
Explanation of the Condition Descriptions

In addition to the RIP Index changes that were implemented in Cycle 5, we will also aim to provide greater assistance in translating good/fair/poor categories into pavement needs categories. The PCR can be used to indicate the place in the Pavement Life Cycle and the types of treatments that should be considered now and into the future.

- Excellent/New: PCR of 95-100. Pavements in this range will require only spot repairs
- Good: PCR of 85-94. Pavements in this range will likely be candidates for preventive maintenance. Examples include Chip and Slurry Seals, Micro Surfacing and Thin Overlays.
- Fair: PCR of 61-84. Pavements in this range will likely be candidates of Light Rehabilitation (L3R). Examples include single-lift overlays up to 2.5 inches in total thickness, milling and overlays.
- Poor: PCR of 60 or below. Pavements in this range will likely be candidates of Heavy Rehabilitation or Reconstruction (H3R or 4R). Examples include Pulverization, Multiple Lift Overlays, and Reconstruction.

At this time, specific maintenance and rehabilitation activities should be evaluated and recommended at the project level. Site-specific conditions that influence treatment type should be determined based on performing a subsurface investigation and/or pavement condition survey, and not be based solely on RIP data. Additionally, RIP produces a snapshot of conditions the year in which the data was collected. For further information or to obtain additional PMS data from our (HPMA) please contact the Eastern Federal Lands pavement team.

Condition Categories and Treatments



Description of Pavement Treatment Types

1. **Preventive Maintenance** is a planned strategy of cost-effective treatments to an existing roadway system and its appurtenances that preserves the system, retards future deterioration, and maintains or improves the functional condition of the system (without significantly increasing the structural capacity). Preventive maintenance is typically applied to pavements in good condition having significant remaining service life. As a major component of pavement preservation, preventive maintenance is a strategy of extending the service life by applying cost-effective treatments to the surface or near-surface of structurally sound pavements. Examples of preventive treatments include asphalt crack sealing, chip sealing, slurry or micro-surfacing, thin and ultra-thin hot-mix asphalt overlay, concrete joint sealing, diamond grinding, dowel-bar retrofit, and isolated, partial and/or full-depth concrete repairs to restore functionality of individual slabs.

2. Pavement Rehabilitation consists of structural enhancements that extend the service life of an existing pavement and/or improve its load carrying capacity. Rehabilitation techniques include restoration treatments and structural overlays. Rehabilitation projects extend the life of existing pavement structures either by restoring existing structural capacity through the elimination of age-related, environmental cracking of embrittled pavement surface or by increasing pavement thickness to strengthen existing pavement sections to accommodate existing or projected traffic loading conditions. Two sub-categories result from these distinctions, which are directly related to the restoration or increase of structural capacity.

    - **Light Rehabilitation (L3R)** - Examples include single-lift overlays up to 2.5 inches in total thickness and milling and overlays for flexible pavements

    - **Heavy Rehabilitation (H3R)** – Requires rehabilitation with grade improvement. H3R stands for resurfacing, restoration, and rehabilitation projects. H3R projects typically involve multi-depth (overlays greater than 2.5 inches) pavement improvement work (short of full-depth replacement) and targeted safety improvements. H3R projects generally involve retention of the existing three-dimensional alignment.

3. **Reconstruction (4R)** is defined as the replacement of the entire existing pavement structure by the placement of the equivalent or increased pavement structure. Reconstruction usually requires the complete removal and replacement of the existing pavement structure. Reconstruction may utilize either new or recycled materials incorporated into the materials used for the reconstruction of the complete pavement section. Reconstruction is required when a pavement has either failed or has become functionally obsolete.

Appendix A

Methodology for Determining Condition Ratings with the Data Collection Vehicle (DCV)

Surface Distresses Identified by the Data Collection Vehicle

Surface Condition Rating – SCR

Surface distresses are measured in the primary lane only. In the classification and measurement of all paved surface condition data, results will be reported in the database in record intervals of 0.02 miles (105.6 feet) (smallest granularity) along the route.

Surface distresses and rutting are determined from digital images that provide both the longitudinal and transverse profile. The images also provide an elevation profile of the road, creating a 3-dimensional image of the paved surface.

- Transverse Cracks
- Longitudinal Cracks
- Alligator Cracks
- Patching/Potholes
- Rutting

Each of the five surface distresses is assigned a computed surface distress index

- Transverse Crack Index
- Longitudinal Crack Index
- Alligator Crack Index
- Patching/Pothole Index
- Rutting Index

Surface distress data are classified as listed above, measured for severity, and quantified for extent. Classification, severity, and extent of these five surface distresses comprise the three main elements for calculation of Surface Condition Rating (SCR).

In addition to the five surface distresses, a Structural Crack Index is computed, which is a combination of the Longitudinal Crack Index and the Alligator Crack Index. The Structural Crack Index is then used in lieu of the LC and AC indices to compute SCR.

Roughness Condition Index - RCI

Additional condition data measured by DCV (lasers and accelerometers)

- Roughness (IRI)

Roughness is measured by FHWA's DCV and reported as International Roughness Index (IRI) in inches/mile. Using IRI, the Roughness Condition Index (RCI) is computed.

Pavement Condition Rating - PCR

Using the SCR (computed from the five surface distresses) and the RCI, an overall Pavement Condition Rating (PCR) is computed. The formula for PCR is:

Asphalt PCR = (0.60 * SCR) + (0.40 * RCI)
Concrete PCR = RCI

A detailed description of each distress index formula, roughness index formula, SCR and PCR is provided in this document.

Each classified surface distress will fall into one or more severity - LOW, MEDIUM, or HIGH based on criteria listed. For each severity, an extent is established based on the measured quantity of the distress within that severity. Within each severity individual distresses are assigned a Maximum Allowable Extent (MAE). For example, LOW severity transverse cracking may be allowed up to 21.1 cracks within a 0.02 mile interval before it reaches MAE and fails.

The index formulas are based on a scale of 0 to 100. A PCR index value of 100 would indicate a "new" road with no measurable distresses or rough ride. A PCR value of 60 is determined to be terminable serviceability and the road is considered failed. The range of index values with condition descriptors is:

POOR = (less than or equal to 60), **FAIR**= (61 – 84), GOOD= (85 - 94), **EXCELLENT**= (95 - 100)

Index values are generally computed based on cumulative deducts of the measured severities. As shown in the index formulas below, as any single severity reaches or exceeds MAE, the index computes to a value of 60 or less, and the road fails for that 0.02 interval.

> **Note:** *As a result of a unique combination of measured surface distresses and IRI, index values occasionally compute to less than 0 or greater than 100. In this instance, an index value less than 0 defaults to 0. Index values greater than 100 defaults to 100. For all indices, a higher value indicates a better road condition, and a lower value indicates a poorer road condition.*

On the following page, Table 1 summarizes the different types of distresses measured.

ASPHALT-SURFACED PAVEMENT DISTRESS TYPES WITH RUTTING AND ROUGHNESS				
Distress Type	**Units Of Measure**	**Converted To**	**Defined Severity Levels?**	**Measured By**
Alligator Cracking	Square Feet	Percent of Lane Per 0.02 Mile	Yes	3 Dimensional pavement imaging system
Transverse Cracking	Linear feet	Number of Cracks Per 0.02 Mile	Yes	3 Dimensional pavement imaging system
Longitudinal Cracking	Linear feet	Percent of Lane Length Per 0.02 Mile	Yes	3 Dimensional pavement imaging system
Patching / Potholes	Square Feet	Percent of Lane Per 0.02 Mile	No	3 Dimensional pavement imaging system
Rutting	Inches	Rut Depth Per 0.02 Mile	Yes	3 Dimensional pavement imaging system
Roughness	IRI	*RCI Per 0.02 Mile	No	DCV – Lasers / Accelerometers

*Note: *Roughness is measured on concrete roadways, but surface distresses and rutting are not measured. For concrete, PCR = RCI*

Table 1. Distress summary

Alligator Cracking

Description:

Alligator cracking is considered a combination of fatigue and block cracking. It is a series of interconnected cracks in various stages of development. Alligator cracking develops into a many-sided pattern that resembles chicken wire or alligator skin. It can occur anywhere in the road lane. Alligator cracking must have a quantifiable area.

Severity Levels:

LOW
An area with little to no interconnecting cracks with no visible spalling. Cracks are less than or equal to a mean width of 0.25 in. (6mm). Cracks in the pattern are no further apart than 1 foot (0.328 m). May be sealed cracks with sealant in good condition and a crack width that cannot be determined.

MEDIUM
An area of interconnected cracks that form a complete pattern. Cracks may be slightly spalled. Cracks are greater than 0.25 in. (6 mm) but less than or equal to 0.75 in. (19 mm) or any crack with a mean width less than or equal to 0.75 in. (19 mm) and adjacent low severity cracking. Cracks in the pattern are no further apart than 6 in. (150 mm).

HIGH
An area of interconnected cracks forming a complete pattern. Cracks are moderately or severely spalled. Cracks are greater than 0.75 in. (19mm) or any crack with a mean width less than or equal to 0.75 in. (19mm) and adjacent medium to high severity random cracking.

A combination of observed crack width and crack pattern is used to determine overall severity of alligator cracking. Based on above description of each severity, the highest level of crack width and crack pattern determines overall severity as shown in Table 2.

ALLIGATOR CRACKING SEVERITY LEVELS				
	CRACK SEVERITY	**CRACK PATTERN**		
		LOW	**MED**	**HIGH**
CRACK WIDTH	LOW	LOW	MED	HIGH
	MED	MED	MED	HIGH
	HIGH	HIGH	HIGH	HIGH

Table 2. Alligator Crack Severity Levels

Longitudinal Cracking

Description:

Longitudinal cracking occurs predominantly parallel to the pavement centerline. It can occur anywhere within the lane. Longitudinal cracks occurring in the wheelpath may be noteworthy.

Severity Levels:

LOW
Cracks with a mean width less than or equal to 0.25 in. (6 mm). This also includes sealed cracks with sealant in good condition and a width that cannot be determined.

MEDIUM
Cracks with a mean width greater than 0.25 in. (6 mm) but less than 0.75 in. (19 mm). Also, any crack with a mean width less than 0.75 in. (19 mm) and adjacent random low severity cracking.

HIGH
Cracks with a mean width greater than 0.75 in. (19 mm). Also, any crack with a mean width less than 0.75 in. (19 mm) and adjacent random medium to high severity cracking.

Transverse Cracking

Description:

Transverse cracking occurs predominantly perpendicular to the pavement centerline. It can occur anywhere within the lane.

Severity Levels:

LOW
Cracks with a mean width of less than or equal to 0.25 in. (6 mm). Sealed cracks with sealant in good condition and a width that cannot be determined.

MEDIUM
Cracks with a mean width greater 0.25 in. (6 mm) and less than or equal to 0.75 in. (19 mm). Also, any crack with a mean width less than 0.75 in. (19 mm) and adjacent random low severity cracking.

HIGH
Cracks with a mean width greater than 0.75 in. (19 mm). Also, any crack with a mean width less than 0.75 in. (19 mm) and adjacent random medium to high severity cracking.

Patching and Potholes

Description:

Patching is an area of pavement surface that has been removed and replaced with patching material or an area of pavement surface that has had additional patching material applied. Patching may encompass partial lane or full lane width. On full lane width patching; the total, contiguous length of patch may not exceed 0.100 mi. (0.161 km). (Any full-lane patch exceeding 0.100 mi. in length is considered a pavement change). Patching must have a quantifiable area.

Potholes are bowl-shaped holes of various sizes occurring in the pavement surface.

Manhole covers should not be rated as patches unless there is obvious patching around the manhole.

Speed bumps should not be rated as patches

Severity Levels:

There are no stratified severities for Patching and Potholes. They either are present or they are not.

RUTTING

Description:

Rutting is a longitudinal surface depression in the wheelpath.

Severity Levels:

LOW

Ruts with a measured depth of 0.20 inches to 0.49 inches
Ruts less than 0.20 in. are not included in the distress calculations.

MEDIUM

Ruts with a measured depth of 0.50 inches to 0.99 inches

HIGH

Ruts with a measured depth greater than 1.00 inch

ROUGHNESS

Description:

Roughness is the measurement of the unevenness of the pavement in the direction of travel. It is measured in units of IRI (International Roughness Index), inches per mile, and is indicative of ride comfort.

Severity Levels:

There are no stratified severity levels for roughness. The roughness (or smoothness) of a road surface can be defined by IRI in the following table.

IRI DESCRIPTIONS	
Type of Road	**Typical IRI (in/mile)**
New Road, no noticeable roughness	<90
Small level of roughness	90 – 126
Road of average roughness	126 – 190
Road with above average roughness	190 – 253
Road with severe roughness	253 – 380
Nearly impassable	>380

Table 3. International Roughness Index

Roughness Collection Parameters

On shorter roads with a lower speed limit the usefulness in collecting and reporting IRI is negligible. Lower, inconsistent speeds can lead to a less accurate IRI value. Therefore RIP has put in place the following protocols for reporting IRI.

International Roughness Index (IRI) is not reported on routes with the following criteria:

- Posted speed limit is less than 25 mph
- Length of route is less than 0.50 miles

When a collected route has a posted speed limit of at least 25 mph and length of at least 0.50 miles, IRI will be collected except on road sections where the speed is less than 20 mph

Other situations may arise where the speed and length factors are met, but reporting IRI could lead to an inaccurate PCR. RIP will determine whether or not it is reasonable to report IRI on these routes on a case by case basis.

Index Formulas

Note: All index formulas listed below contain MAE applicable to 0.02 mile (105.6 feet) interval.

Alligator Crack Index

AC_INDEX = 100 – 40 * [(%LOW / 35) + (%MED / 15) + (%HI / 5)]

Where:

The values %LOW, %MED and %HI report the percentage of the observed pavement (0.02 mile, primary lane) that contains alligator cracking within the respective severities. These values range from 0 to 100.

%LOW = Percent of total area (primary lane, 0.02 in length), low severity
%MED = Percent of total area (primary lane, 0.02 in length), medium severity
%HI = Percent of total area (primary lane, 0.02 in length), high severity

Percent of total area is computed as:

$$\frac{\text{square foot area of alligator crack severity}}{\text{(0.02 mile)*(lane width)}}$$

In AC_INDEX, the denominators 35, 15, and 5 are the Maximum Allowable Extents (MAE) for each severity. In other words, we will allow up to 35% of low severity alligator cracking for a 0.02 interval before failure, 15% for medium severity, and so on. As you can see, if any single severity reaches MAE the resulting index value is 60, or failure.

Longitudinal Crack Index

LC_INDEX = 100 – 40 * [(%LOW / 175) + (%MED / 75) + (%HI / 25)]

Where:

The values %LOW, %MED, and %HI report the length of longitudinal cracking within each severity as a percent of the section length (0.02 mile, primary lane). These values are greater than or equal to 0 and can exceed 100.

%LOW = Percent of interval length (primary lane, 0.02 in length), low severity
%MED = Percent of interval length (primary lane, 0.02 in length), medium severity
%HI = Percent of interval length (primary lane, 0.02 in length), high severity

Percent of interval length is computed as:

$$\frac{\text{length of respective longitudinal cracking}}{\text{(0.02 mile)*(105.6 ft.)}}$$

In LC_INDEX, the denominators 175, 75, and 25 are the Maximum Allowable Extents (MAE) for each severity. In other words, we will allow up to 175% of low severity longitudinal cracking for a 0.02 interval before failure, 75% for medium severity, and so on. As you can see, if any single severity reaches MAE the resulting index value is 60, or failure.

Structural Crack Index

SC_INDEX = [100 - ((100 - AC_INDEX) + (100 - LC_INDEX))]

Structural Crack Index is a combination of Alligator Cracking and Longitudinal Cracking, and is used in the SCR formula in lieu of AC and LC separately.

Transverse Crack Index

TC_INDEX = 100 – 40 * [(LOW / 21.1) + (MED / 4.4) + (HI / 2.6)]

Where:

The values LOW, MED and HI report a count of the total number of transverse cracks (reported to three decimals) within each severity level, where one transverse crack is equal to the lane width. These values are greater than or equal to 0.

LOW = Number of cracks in interval (primary lane, 0.02 in length), low severity
MED = Number of cracks in interval (primary lane, 0.02 in length), medium severity
HI = Number of cracks in interval (primary lane, 0.02 in length), high severity

Number of cracks is computed as:

$$\frac{\text{Total length of transverse cracks}}{\text{Lane width}}$$

In TC_INDEX, the denominators 21.1, 4.4, and 2.6 are the Maximum Allowable Extents (MAE) for each severity. In other words, we will allow up to 21.1 low severity transverse cracks for a 0.02 interval before failure, 4.4 cracks for medium severity, and so on. As you can see, if any single severity reaches MAE the resulting index value is 60, or failure.

Patching Index

PATCH_INDEX = (100 – 40) * (%PATCHING / 80)

Where:

The value %PATCHING reports the percentage of the observed pavement (0.02 mile, primary lane) that contains patching/potholes. This value ranges from 0 to 100.

%PATCHING = Percent of total area (primary lane, 0.02 in length)

Percent of total area is computed as:

$$\frac{\text{square foot area of patching/potholes}}{\text{(0.02 mile)*(lane width)}}$$

There are no severity levels for patching. It either exists or does not.

There are no severity levels for patching. It either exists or does not. In PATCH_INDEX, the denominator 80 is the Maximum Allowable Extent (MAE) for each severity. In other words, we will allow up to 80% patching for a 0.02 interval before failure. As you can see, if patching/potholes reaches MAE the resulting index value is 60, or failure.

Rutting Index

RUT_INDEX = 100 – 40 * [(%LOW / 535) + (%MED / 205) + (%HI / 40)]

Where:

20 rut depth measurements are taken per 0.02 interval for each of 2 wheel paths (left and right), resulting in a total of 40 measurements taken for both wheel paths. Each wheelpath is analyzed independently for rut severities. The values %LOW, %MED and %HI report the percentage of the 40 measurements within that severity. These values range from 0 to 200.

%LOW = Percent of LOW ruts in left wheelpath based on 20 ruts, plus percent of LOW ruts in right wheelpath based on 20 ruts.
%MED = Percent of MED ruts in left wheelpath based on 20 ruts, plus percent of MED ruts in right wheelpath based on 20 ruts.
%HI = Percent of HI ruts in left wheelpath based on 20 ruts, plus percent of HI ruts in right wheel path based on 20 ruts.

Percent of rut measurements within each severity can also be computed as:

$$\frac{\textbf{(total number of ruts within each severity in both wheelpaths)}}{\textbf{20}} \times \textbf{100}$$

In RUT_INDEX, the denominators 535, 205, and 40 are the Maximum Allowable Extents for each severity; Low, Medium, and High, respectively. Only the MAE for high severity rutting can fail a section, since 200% of *only* low severity ruts would yield a rut index of 85 and 200% of *only* medium severity ruts would yield a rut index of 61.

Roughness Condition Index (Asphalt)

RCI = 32 * [5 * ($2.718282^{(-.0041 * \text{AVG IRI})}$)]

Where:

The value AVG IRI reports the average value of the Left IRI and Right IRI measurements for the interval (0.02 mile, primary lane). This value can range from approximately 40 to 999.0.

Average IRI is computed as:

$$\frac{\text{(Left wheelpath IRI) + (Right wheelpath IRI)}}{2}$$

There is no applicable threshold for failure for this index.

Roughness Condition Index (Concrete)

RCI = $(-0.0012)(\text{IRI}^2) + (0.0499)(\text{IRI}) + 99.542$

For concrete, PCR = RCI

Surface Condition Rating Index

SCR = Lowest Index Value Of: [SC_INDEX, TC_INDEX, PATCH_INDEX, RUT_INDEX]

Note: *The modified SCR equation above combines AC_INDEX and LC_INDEX, and considers that a single AC/LC index value of the Structural Crack Index (SC_INDEX). The lowest of the four computed index values (SC_INDEX, TC_INDEX, PATCH_INDEX, or RUT_INDEX) becomes the SCR.*

Where:

See above for determinations of SC_INDEX, TC_INDEX, PATCH_INDEX and RUT_INDEX.

The threshold for failure for this index is SCR = 60.Data Collection Vehicle Subsystems

Data on paved roads is collected by FHWA using a Pathway Services Inc. Data Collection Vehicle (DCV), called a PathRunner. The DCV is driven in the primary-direction lane at posted speed limits and less.

Cameras

Forward-facing and rear-facing video is collected as jpeg digital imagery files at a frequency of every 26.4feet.

Two forward-facing cameras are mounted above the vehicle cab, one pointed straight ahead and the other to the right shoulder providing seamless roughly 120 degree viewing. A third camera is mounted in the rear of the vehicle, recording the left shoulder.

CAMERA SPECIFICATIONS TWO FORWARD / ONE REAR FACING CAMERA	
Camera lens/type	Prosilica GT 2750 (GigE Technology)
Image format	*.jpg
Image resolution	2750 x 2200, 18 frames/second
Image pixel size	depends on distance
Zoom ratio	16mm Fixed
Iris range	Aperture Range F 1.8 – Infinity (P-Iris, Automatic

Pavement Imaging and Rutting

High resolution rutting data and surface imaging are collected in a single data stream using a three-dimensional (3D) pavement surface transverse profile data acquisition system. The 3D camera captures a laser line as it is projected over the pavement surface and uses the location of this line to measure the height deviations of the pavement surface. These height deviations can be used to calculate rutting in both wheelpaths. These deviations also provide a grayscale image detailing the change in height throughout the surface, i.e. providing depth measurements for cracking.

THREE-DIMENSIONAL PAVEMENT SURFACE AND TRANSVERSE PROFILE DATA ACQUISITION SYSTEM	
Surface Image Specifications	
Image size	1536 pixels/scan @3000 Hz
Image width	4 meters (3950 mm nominal)
Laser class	3B
Power	16W (Two lasers @ 8W Ea)
Vehicle speed limitations	62 mph
Environment	Dry pavement, day or night
Sensor size (approximate)	1536 pixels x 512 pixels
Image display length	26.4 feet
Rutting Specifications	
Reported rut depth units	Inches
Vehicle speed limitations	Up to 62 mph
Sampling rate	3000 profiles/second
Transverse resolution	1536 points/profile
Transverse field-of-view	14 feet
Depth accuracy (nominal)	<1mm
Environment	Dry pavement, day or night, above 32 degrees F
Adherence to specifications	ASTM E1703M-95 (reapproved 2005)

Distance Measuring Instrument (DMI)

The DMI (Distance Measuring Instrument) obtains road length measurements that are accurate to 0.15% for speeds up to 60 mph. The DMI is connected to the hub of the rear wheel on the driver's side, and is calibrated to the revolutions of the rear vehicle axle on a regular basis.

Roughness (IRI)

IRI SPECIFICATIONS	
Reported IRI units	Inches/mile
Vehicle speed limitations	12-62 mph
IRI equipment certification	Texas Transportation Institute (TTI)
Wavelengths accommodated	0.5 feet to 300 feet
IRI computed & reported	World Bank Technical Paper Number 46
Environment	Dry pavement, day or night, above 32 degrees
Adherence to specifications	ASTM E950 Class 1 & AASHTO M 328

The collection system includes a South Dakota type laser profiler manufactured based on active Class 1 ASTM E950 standards. The dynamic profile of the pavement surface is collected from which the IRI roughness data is computed. The sensors include one accelerometer on each wheelpath, one height sensor (laser) on each wheelpath, and a distance transducer.

GPS & Inertial Systems

GPS is collected by an onboard system employing Omnistar real time correction and a spinning gyroscope to provide accurate positioning data in instances of satellite obstruction. All GPS coordinates are tied to an image and linear distance measurements.

GPS SPECIFICATIONS	
Static accuracy	Sub-meter
Dynamic accuracy	2-3 meters
Receiver	12 satellite tracking
Coordinate system	Lat Lon WGS 84
Environment	Day or night
Cross-slope	± 1.75%
Grade	± 1.75%
Adherence to specifications	ASTM E1703M-95 (reapproved 2005)

*NOTE – GPS accuracy is dependent on many different factors. Satellite constellation, tree coverage, GPS receiver quality, and real-time correction availability can all affect the locational and elevation accuracies. The elevation (z coordinate) accuracy is less dependable than locational or horizontal accuracy (x/y coordinates or latitude/longitude). In areas of heavy tree coverage or poor satellite constellations, elevation data can vary by as much as +/- 100 feet.

Appendix B

Methodology for Determining Condition Ratings Using Manual Rating Procedures

Description of Manual Rating Methods

In 2013, the Federal Highway Administration updated existing Manual Rating Procedures in an effort to better align pavement conditions for Manually Rated Routes and Parking with the Highway Pavement Management Application (HPMA). HPMA is the Pavement Management System used by the FHWA to store inventory and condition data from the Road Inventory Program (RIP) and forecast future performance using prediction models. HPMA uses pavement condition data (collected by the Road Inventory Program) to develop life cycles for pavements and recommend treatments to maximize useable pavement life while minimizing costs associated with maintenance and repair.

The Federal Highway Administration (FHWA) developed a set of manual rating methods for pavement that are appropriate for Federal Roadways. Two different methods were developed for linear roads and a separate method was developed for parking areas and nonlinear roads. These methods employ a 0 to 100 rating scale and improve consistency and objectivity in the manual evaluation of surface distresses. They are compatible with ratings that are collected by the automated Data Collection Vehicle (DCV).

- The first of the two manual evaluation methods for roads uses rating criteria to assign index values to each distress type based on a visual evaluation of severity and extent.

- The second manual evaluation method for roads is very time demanding and is best employed on only a select set of routes which may have the highest visitor use and require a more intensive assessment. This method will be used for the Manual Rating of Function Class 1, 2, 7, and 8 Roads. This method is based on measurements that are recorded for each instance of a surface distress. These measurements are converted into index values using conversion formulas.

- Parking areas and non-linear roads are rated similar to the first method shown above, however, there are some slight differences due to the non-linear nature.

The details and criteria used for each of these rating methods are outlined below.

Visual Inspection Method for Manually Rating Secondary Roads

The visual inspection method for manually rated roads uses condition rating criteria that have been developed by FHWA. This criteria is based on a visual evaluation of the severity and extent of distresses to determine the overall condition of the roadway. This method is used for secondary roads that are Functional Class 3, 4, 5, and 6. This constitutes the majority of manually rated roads collected by the Road Inventory Program.

Rating Section Lengths

For this method, Manually Rated Roads are rated in sections. These sections may be made based on length of changes in surface type or condition as described below. The ratings are then aggregated to give an overall rating for the Route:

- Rating sections should be no longer than 0.25 miles in order to keep the area being rated manageable.
- A new rating section may be started based on changes in condition, width, or surface type if these changes represent a significant portion of the route (are not isolated instances).
- If the road condition, width, and surface type remain constant then new sections do not need to be created unless the road exceeds 0.25 miles.

Rating Criteria

For this method, Manually Rated Roads are evaluated using a visual inspection of the six distress types listed below. Each distress is assigned one of five index values. An overall Surface Condition Rating (SCR) and Pavement Condition Rating (PCR) are calculated based on these index values.

- Alligator Cracking
    - Rating based on percentage of road surface affected
- Longitudinal Cracking
    - Rating based on severity level (crack width) and percentage of road section length of longitudinal cracks
- Transverse Cracking
    - Rating based on crack width, crack spacing, and percentage of surface affected
- Patching
    - Rating based on percentage of road surface affected
- Rutting
    - Rating based on percentage of road section length affected by visible rutting (>1 inch depth) that requires remediation
- Roughness
    - Manual assessments of roughness are not made due to the subjectivity of the measurement. Therefore, roughness is not incorporated into the PCR calculation of manually rated roads.

Concrete Routes also receive a PCR rating based on visual evaluation of the following six distress types.

- Slab Faulting at Joints
- Slab Cracking and breakup
- Surface Delamination and Pop-outs
- Joint Distresses
- Patching

Distress Measurement Method for Manually Rating Primary Roads

A more intensive and time demanding assessment than our standard method was developed for Primary roads that are functional class 1, 2, 7, or 8. These high visitation roads are usually accessible by the automated Data Collection Vehicle but in rare instances may need to be manually rated. The method developed is based on measuring each instance of a distress. These measurements are totaled over each section length being measured and are then converted into index values between 0 and 100 (100 being a road with no distress) using index formula equations outlined below. The goal of this method is to produce measured index values which are directly comparable to the automated DCV.

Rating Section Lengths

For the distress measurement method roads are broken into sections in order to rate. Distress measurements are totaled for each section separately in order to determine the index value for that particular section. The section length to be rated is determined based on the following rules:

- Rating sections are between 0.25 and 0.50 miles long
- A new rating section is created if there is a significant change in condition or pavement width
- If there are no significant changes in condition or pavement width, rating sections are broken at equal intervals, typically 0.50 miles

Manual Distress Measurements

Alligator Cracking

- Alligator cracking is measured by area (square feet). Instances of Alligator cracking are measured along the length and multiplied by the average width of the distressed area.
- The index for alligator cracking takes the total area of cracking compared to the interval length and converts it to a percentage. That percentage is then input into an index formula that yields a value between 0 and 100 (0 being the most distressed).
- Severity levels are not defined for manually measured Alligator cracks. The Alligator Crack Index formula is calculated based on an assumption of medium severity.

Longitudinal Cracking

- Longitudinal cracking (cracking in the direction parallel to the roadway) is measured by length (ft.).
- The index for longitudinal cracking takes the total length of cracking compared to the interval length and converts it to a percentage broken down by severity. That percentage is then input into a formula that yields a value between 0 and 100 (0 being the most distressed).
- Two severity levels are defined for manually measured Longitudinal Cracks. Lower severity cracks are those with a mean width of less than 0.25 inches. Sealed cracks with sealant in good condition are also considered lower severity. Higher severity cracks are those with a mean width of greater than 0.25 inches.

Transverse Cracking

- Transverse cracking (cracking in the direction perpendicular to the roadway) is measured by length (ft).
- The index for transverse cracking takes the total number of cracks (1 crack would encompass the full lane) broken down by severity. The total numbers of each severity are then put into a formula that yields a value between 0 and 100 (0 being the most distressed).
- Two severity levels are defined for manually measured Transverse Cracks. Lower severity cracks are those with a mean width of less than or equal to 0.25 inches. Sealed cracks with sealant in

good condition are also considered lower severity. Higher severity cracks are those with a mean width of greater than 0.25 inches.

Patching and Potholes

- Patching and Potholes are measured by area (square feet). Instances of Patching are measured along the length and multiplied by the average width of the patch.
- Instances of full lane width patching cannot be longer than 0.100 miles, otherwise is should be considered a pavement change rather than a distress.
- There are no stratified severities for Patching. It is either present or it is not.

Rutting

- Visible rutting is measured by length (ft.) in each wheel path. Only visible ruts are rated, which are ruts greater than 1 inch deep.
- All rutting recorded in a manual rating is considered to be high severity (> 1 inch). Lesser severities are generally not distinguishable in a visual inspection.

Roughness

- Manual assessments of roughness are not made due to the subjectivity of the measurement. Therefore, roughness is not incorporated into the PCR calculation of manually rated roads.

Index Formulas for Distress Measurement Method:

The method used to convert distress measurements into index values is shown below. The Surface Condition Rating and Pavement Condition Rating are calculated based on these index values.

Alligator Crack Index for Manual Rating:

AC_INDEX = 100 – 40 * (%ALLIGATOR / 15)

Where:

%ALLIGATOR = Percent of total area of section being rated that contains Alligator cracking.

Longitudinal Crack Index for Manual Rating:

LC_INDEX = 100 – 40 * [(%LOW / 175) + (%MED / 75)]

Where:

%LOW = Percent length of longitudinal cracks where crack width less than or equal to 0.25 inches

%HIGH = Percent length of longitudinal cracks where crack width greater than 0.25 inches

Transverse Crack Index for Manual Rating:

TC_INDEX = (100 – 40) * [(LOW / 21.1) + (MED / 4.4)]

Where:

LOW = Count of the total number of transverse cracks within the section length where one transverse crack is equal to the lane width and the crack width <= 0.25 inches

HIGH = Count of the total number of transverse cracks within the section length where one transverse crack is equal to the lane width and the crack width > 0.25 inches

Number of cracks is computed as:

Total length of transverse cracks/Lane width

Patching Index for Manual Rating:

PATCH_INDEX =(100 – 40) * (%PATCHING / 80)

Where:

%PATCHING = Percentage of pavement section that contains patching/potholes.

Rutting Index for Manual Rating:

RUT_INDEX = 100 – 40 * (%RUTTING / 40)

Where:

%RUTTING = Percentage length of high severity rutting within the section being measured.

Method for Manually Rating Paved Parking Areas and Non-Linear Roads

Parking areas are evaluated based on a visual inspection using condition rating criteria that has been developed by FHWA. This criteria is based on a visual evaluation of the severity and extent of distresses to determine the overall condition of the parking area. This overall condition rating is linked to the level of repair and rehabilitation practices required.

A distress index is determined for each of the distresses listed below for Asphalt and Concrete Parking areas. The overall Pavement Condition Rating (PCR) of the parking lot is driven by the most severe distress present.

Rating Criteria:

Asphalt Parking Distress Types

- Alligator Cracking
  - Rating based on percentage of road surface affected
- Longitudinal, Transverse and Block cracking
  - Rating based on crack width, crack spacing, and percentage of surface affected
- Rutting and Distortions
  - Rating based on percentage of road surface affected
- Hot Mix Asphalt Patches
  - Rating based on overall percentage of HMA patches
- Potholes and Cold Patches
  - Rating based on percentage of road surface affected
- Surface Raveling and Bleeding
  - Rating based on percentage of road surface affected

Concrete Parking Distress Types

- Slab Faulting at Joints
  - Rating based on height differential between adjacent slabs or pieces of broken slabs
- Slab Cracking and breakup
  - Rating based on quantity of cracks and if slab is acting to able distribute load as designed
- Surface Delamination and Pop-outs
  - Rating based on percentage of road surface affected to include pop-outs, spalls and surface delamination
- Joint Distresses
  - Rating based on sealant condition and concrete distresses at/or adjacent to joints
- Patching
  - Rating based on percentage of road surface affected

Curb Inspection and Treatments

During inspections of manually rated parking lots and routes, the curb reveal and overall curb condition are evaluated. The curb condition is used to determine a recommendation.

Curb Reveal
The vertical distance on the curb face from the gutter flow line or pavement surface to the top of curb. When resurfacing adjacent to curb, the resulting curb reveal should be no less than 4 inches. Additionally, when resurfacing adjacent to a gutter, the resulting pavement surface should be flush with the gutter pan. In cases where a resurfacing would violate either of these parameters, the surface may need to be milled or removed to adjust to these field conditions.

Curb Recommendations
The following treatment categories are based on the overall percentage of distresses along the entire curb structure for a specific pavement structure. Distresses include spalling, cracking, loss of material and any other damage which prevents the curb from conveying storm runoff or failing to perform in its intended function.

- Overall curb damage ranging 0%-5%:
    - DO NOTHING
- Overall curb damage ranging 5%-20%
    - LIGHT REPAIR
- Overall curb damage ranging 20%-50%
    - MODERATE REPAIR
- Overall curb damage greater than 50%:
    - REPLACE

GPS for Manually Rated Roads and Parking

GPS information for Manually Collected Cycle 6 Routes will be recorded using the latest hardware and software by TRIMBLE 6000 Series GeoXT. Cycle 6 GPS collection units will allow access to GPS and GLONASS, improving overall GPS reliability, accuracy and precision to submeter accuracy. Additionally, the new GPS units have an enhanced ability to collect accurate signals underneath tree cover or adjacent to buildings or natural terrain with extreme vertical gradations that typically reduce GPS accuracy. Trees and buildings create "satellite shadows", limiting the areas where you can reliably collect high-accuracy GPS data. The updated GPS receiver will deliver improved usable data under tree canopy or in natural or urban canyons. Routes that were previously collected accurately will not be recollected in Cycle 6.

TRIMBLE 6000 SERIES GeoXT GPS SPECIFICATIONS	
Receiver	Trimble Maxwell™ 6 GNSS chipset
Channels	220 channels
Systems	GPS / GLONASS / WAAS
Accuracy	Sub-meter
Operation Temperature	–20 °C to +60 °C (–4 ºF to +140 ºF)
Cellular and Wireless	UMTS / HSDPA / GPRS / EDGE / Wi-Fi / Bluetooth
Internal Still Camera w/ GEOTAG ability	Autofocus 5 MP (JPG) and WMV w/ Audio

Appendix C

Description of Cycle 6 Deliverables

Interim Report Delivery

Partial report will be primarily focused on manually collected routes. The report will be released approximately four months after manual collection of parking lots and other manually collected routes to provide NPS an immediate report on the condition of routes collected manually.

The Interim Report Delivery consists of an Interim Report PDF that contains the following:

- Parking lot and manually rated route conditions
- Route ID Reports
- Route ID Changes Report.

Please note that since the Data Collection Vehicle will have not collected data at this point in time, the following will not be in the Interim Report:

- No park summary information will be provided in the report
- No DCV data will be provided in report
- No road logs will be provided in report
- No maps will be provided in report
- Any mileages collected will be approximate

All data provided in the Interim Report will also be included in the Final Report.

Final Report Delivery

The Final Report will contain all data collected by Manual Inspection and the Data Collection Vehicle. All information provided in the Interim Report will be included in the Final report. Manually collected information reported in the Interim Report may be updated in the Final Report if pavement conditions have substantially changed between the Manual Inspection and Data Collection Vehicle Inspection or other unforeseen circumstances.

The final report will be released approximately 8 months after the Data Collection Vehicle completes its collection of that specific park.

Data included in the Final Report package consists of the following:

- **Condition Photos:** All photos taken during Cycle 6.
- **Data Video:** Data and video of each route collected by the DCV will viewable through PATHVIEW software. PATHVIEW Software and training will be provided to NPS personnel by Eastern Federal Lands.
- **GPS on All Rated Routes:** All GPS data collected from the DCV will be provided. Parking areas, some roads, and other paved areas that are not fully drivable with the DCV are collected manually by field technicians. GPS is collected for these routes using portable Trimble GPS units.
    - GPS will be provided as Shapefiles and KMLs
    - All GPS data related to road collection with be linear referenced to the collected length
- **Geodatabase – Background and Metadata:** In addition to this park report, a geodatabase containing both tabular and spatial data specific to this park has been provided.
    - All data disseminated in the preceding report has been obtained from the tables and fields within said geodatabase. The geodatabase can be referenced for tabular data via Microsoft Access or for both tabular and spatial data via ESRI's ArcGIS Suite of software which consists of; ArcMap, ArcCatalog and ArcExplorer.
    - Consolidating the RIP data into one database creates a seamless relationship of tables and geographic data. It allows RIP to facilitate easier updates and enhancements in the future. A geodatabase can be thought of as simply a database containing spatial data. A complete and thorough description of the tables and fields contained within this geodatabase can be found in the metadata. The metadata is attached directly within the geodatabase and can be accessed via ESRI's ArcCatalog.
- **Report (RIP Report and Route ID):** A PDF report will be provided that includes a list of all routes and key data. Condition reports for each route will be included. All changes, additions and deletions to any route will be included in the report. Features along routes will not be collected in Cycle 6.

Partial DCV Collections

Additional Partial DCV Collections may be done on specific parks depending on their size and overall mileage of routes within its boundaries during Cycle 6. Parks with greater than 10 miles of paved roadways will receive at least one additional Partial DCV collection during Cycle 6. Data collected during these Partial DCV Collections will not result in the delivery of an additional report to the park.

Data collected by the DCV during Partial DCV Collection will be used to improve HPMA modeling by providing additional "snapshots in time" of park pavement conditions. This improved HMPA modeling will assist in the programing and budgeting of future projects which will help maximize the life of pavement infrastructures.

Instead of receiving a report of conditions collected during the Partial DCV collection, the park will receive a formal letter from the Road Inventory Program requesting coordination for the additional Partial DCV collection, identifying the dates of the Partial DCV Collection and will reinforce the purpose and importance of the Partial DCV Collection.

Appendix D

Glossary of Terms and Abbreviations

Glossary of Terms and Abbreviations

TERM OR ABBREVIATION	DESCRIPTION OR DEFINITION
AC	Alligator Cracking
CRS	Condition Rating Sheets (Section 5)
Curb Recommendation	Curb remediation based on overall percentage of curb distress
Curb Reveal	Height of curb exposed from gutter flow line to top of curb
DCV	Data Collection Vehicle
Excellent	Excellent rating with an index value of 95 to 100
Fair	Fair rating with an index value from 61 to 84
FUNCT_CLASS	Functional Classification (see Route ID, Section 2)
Good	Good rating with an index value from 85 to 94
IRI	International Roughness Index
HPMA	Highway Pavement Management Application
Lane Width	Width from road centerline to fogline, or from centerline to edge-of-pavement when no fogline exists
LC	Longitudinal Cracking
MRR	Manually Rated Route
MRL	Manually Rated Line
MRP	Manually Rated Polygon
N/A	Not Applicable
NC	Not Collected
PATCH	Patching and Potholes
Paved Width	Width from edge-of-pavement to edge-of-pavement
PCR	Pavement Condition Rating
PKG	Parking Area
Poor	Poor rating with an index value of 0 to 60
RCI	Roughness Condition Index
SC	Structural Cracking
SCR	Surface Condition Rating
TC	Transverse Cracking