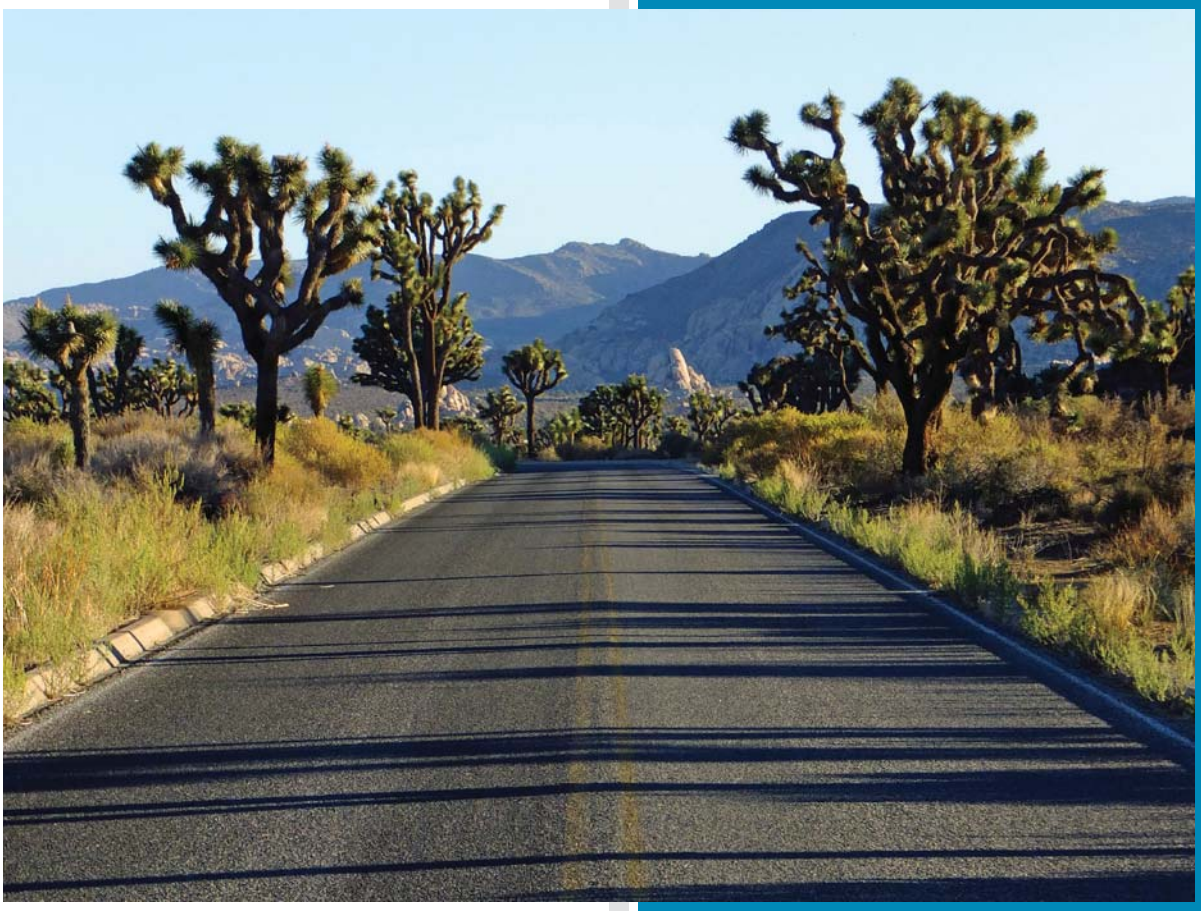
JOTR
Cycle 6

Final Report

Road Inventory and Condition Assessment of Paved Routes
Joshua Tree National Park



Federal Lands Highway
Road Inventory Program

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

Report Date: December 2015

Joshua Tree National Park
in
California

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

Joshua Tree National Park

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

Joshua Tree National Park

Federal Lands Highway
Road Inventory Program

Report Date: 12/09/2015

Cycle 6 NPS / RIP Route ID Report

(Numerical By Summary Route and Subcomponent #)

Federal Lands Highway
Road Inventory Program

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JOTR *Joshua Tree National Park*

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
0011	6	1	16798		PINTO BASIN ROAD	FROM ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 4.67 ON LEFT	TO END OF ROUTE 5003 (COTTONWOOD ROAD (STATE ROUTE 195))		35.54	0.00	35.54	1		AS	1,1C,2,2A
0012	6	1	16832		EAST-WEST HIGHWAY	FROM INTERSECTION OF ROUTE 0956 (NORTH ENTRANCE SIGN PARKING) AND END OF ROUTE 5004 (UTAH TRAIL)	TO JOSHUA TREE ENTRANCE / QUAIL SPRINGS ROAD		25.46	0.00	25.46	1		AS	1,1B,1C,1D
0013	6	1	19875		KEY'S VIEW ROAD	FROM ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 14.97 ON LEFT	TO ROUTE 0915B (KEYS VIEW PARKING B)		5.50	0.00	5.50	2		AS	1,1B
0100	NC		19905		QUEEN VALLEY CONNECTOR	FROM ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 9.73 ON RIGHT	TO ROUTE 0105 (BIG HORN PASS ROAD)		0.00	4.20	4.20	2		NV	
0101	6	1	19903		BARKER DAM ROAD	FROM ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 16.54 ON RIGHT	TO ROUTE 0923 (BARKER DAM PARKING)		1.51	0.00	1.51	2		AS	1B
0102	NC		58838		LOST HORSE RANGER STATION ROAD	FROM ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 18.01 ON LEFT	TO ROUTE 0952 (LOST HORSE RANGER STATION PARKING)		0.00	1.18	1.18	3		NV	
0103	NC		19676		OLD DALE ROAD	FROM ROUTE 0104 (BLACK EAGLE MINE ROAD) AT MP 0.04 ON LEFT	TO NORTH PARK BOUNDARY		0.00	12.57	12.57	2		NV	
0104	NC		19710		BLACK EAGLE MINE ROAD	FROM ROUTE 0011 (PINTO BASIN ROAD) AT MP 22.08 ON LEFT	TO EAST PARK BOUNDARY		0.00	9.65	9.65	2		NV	
0105	NC		57402		BIG HORN PASS ROAD	FROM ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 10.44 ON RIGHT	TO ROUTE 0101 (BARKER DAM ROAD) AT MP 1.51 ON RIGHT		0.00	3.19	3.19	3		NV	
0106	NC		19910		LOST HORSE MINE ROAD	FROM ROUTE 0013 (KEY'S VIEW ROAD) AT MP 2.45 ON LEFT	TO END		0.00	1.01	1.01	3		NV	
0107	NC		93136		SOUTH PARK ROAD	FROM ROUTE 0214AZ (BLACK ROCK CAMPGROUND ROAD A)	TO NORTH PARK BOUNDARY		0.00	0.40	0.40	2		NV	

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0108	NC		57494		ODELL ROAD	FROM ROUTE 0105 (BIG HORN PASS ROAD)	TO ROUTE 0930 (QUEEN MOUNTAIN PARKING)		0.00	1.48	1.48	2		NV	
0109	NC		97835		WALL STREET MILL ROAD	FROM ROUTE 0105 (BIG HORN PASS ROAD)	TO ROUTE 0931 (WALL STREET MILL PARKING)		0.00	0.27	0.27	2		NV	
0110	NC		98046		NORTH ENTRANCE BACKCOUNTRY BOARD ROAD	FROM ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 0.55 ON LEFT	TO END OF LOOP		0.00	0.21	0.21	2		GR	
0200	NC		19814		SPLIT ROCK PICNIC AREA ROAD	FROM ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 6.87 ON RIGHT	TO ROUTE 0910 (SPLIT ROCK PICNIC AREA)		0.00	0.54	0.54	3		GR	
0201	NC		19816		LIVE OAK PICNIC AREA ROAD	FROM ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 6.87 ON LEFT	TO END OF LOOP		0.00	0.38	0.38	3		NV	
0202	NC		19701		BERDOO CANYON ROAD	FROM ONE-WAY LOOP PORTION OF ROUTE 0300 (GEOLOGY TOUR ROAD)	TO SOUTH PARK BOUNDARY		0.00	11.52	11.52	4		NV	
0203ZZ	6	1	19763		JUMBO ROCKS CAMPGROUND	FROM ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 8.14 ON LEFT	THROUGH CAMPGROUND		1.32	0.00	1.32	3		AS	1D
0204	6	1	16807		COTTONWOOD SPRINGS CAMPGROUND AND TRAILHEAD	FROM ROUTE 0011 (PINTO BASIN ROAD) AT MP 29.71 ON LEFT	TO ROUTE 0908 (COTTONWOOD SPRINGS OASIS PARKING)		1.14	0.00	1.14	3		AS	2A
0205	6	1	16892		BELLE CAMPGROUND ROAD	FROM ROUTE 0011 (PINTO BASIN ROAD) AT MP 1.33 ON LEFT	TO BEGINNING OF ROUTE 0205A (BELLE CAMPGROUND LOOP ROAD)		0.12	0.00	0.12	3		AS	1C
0205A	NC		97984		BELLE CAMPGROUND LOOP ROAD	FROM END OF ROUTE 0205 (BELLE CAMPGROUND ROAD)	TO END OF LOOP		0.00	0.37	0.37	3		NV	
0206	6	1	16893		WHITE TANK CAMPGROUND ENTRANCE ROAD	FROM ROUTE 0011 (PINTO BASIN ROAD) AT MP 2.70 ON LEFT	TO BEGINNING OF ROUTE 0206A (WHITE TANK CAMPGROUND LOOP ROAD)		0.14	0.00	0.14	3		AS	1C

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0206A	NC		104964		WHITE TANK CAMPGROUND LOOP ROAD	FROM END OF ROUTE 0206 (WHITE TANK CAMPGROUND ENTRANCE ROAD)	TO END OF LOOP		0.00	0.17	0.17	3		NV	
0207	6	1	97986		HIDDEN VALLEY CAMPGROUND ENTRANCE ROAD	FROM ROUTE 0101 (BARKER DAM ROAD) AT MP 0.08 ON LEFT	TO ROUTE 0207B (HIDDEN VALLEY CAMPGROUND LOOP ROAD B) AND ROUTE 0207C (HIDDEN VALLEY CAMPGROUND LOOP ROAD C)		0.12	0.00	0.12	3		AS	1B
0207A	NC		19880		HIDDEN VALLEY CAMPGROUND LOOP ROAD A	FROM END OF ROUTE 0207C (HIDDEN VALLEY CAMPGROUND LOOP ROAD C)	TO END OF LOOP		0.00	0.37	0.37	3		NV	
0207B	NC		104973		HIDDEN VALLEY CAMPGROUND LOOP ROAD B	FROM END OF ROUTE 0207 (HIDDEN VALLEY CAMPGROUND ENTRANCE ROAD) AND BEGINNING OF ROUTE 0207C (HIDDEN VALLEY CAMPGROUND LOOP ROAD C)	TO END OF LOOP		0.00	0.13	0.13	3		NV	
0207BA	NC		104980		HIDDEN VALLEY CAMPGROUND LOOP B SPUR	FROM ROUTE 0207B (HIDDEN VALLEY CAMPGROUND LOOP ROAD B)	TO ROUTE 0207B (HIDDEN VALLEY CAMPGROUND LOOP ROAD B) LOOP		0.00	0.08	0.08	3		NV	
0207C	NC		104987		HIDDEN VALLEY CAMPGROUND LOOP ROAD C	FROM END OF ROUTE 0207 (HIDDEN VALLEY CAMPGROUND ENTRANCE ROAD) AND BEGINNING OF 0207B (HIDDEN VALLEY CAMPGROUND LOOP ROAD B)	TO BEGINNING OF ROUTE 0207A (HIDDEN VALLEY CAMPGROUND LOOP ROAD A)		0.00	0.31	0.31	3		NV	
0209	NC		19752		RYAN CAMPGROUND ENTRANCE ROAD	FROM ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 14.43 ON LEFT	TO ROUTE 0209A (RYAN CAMPGROUND LOOP A)		0.00	0.32	0.32	3		GR	

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0209A	NC		104941		RYAN CAMPGROUND LOOP A	FROM END OF ROUTE 0209 (RYAN CAMPGROUND ENTRANCE ROAD)	TO END OF LOOP AT ROUTE 0209 (RYAN CAMPGROUND ENTRANCE ROAD)		0.00	0.42	0.42	3		GR	
0209B	NC		105501		RYAN CAMPGROUND HORSE CAMP 209 AA	FROM ROUTE 0209A (RYAN CAMPGROUND LOOP A)	TO ROUTE 0209A (RYAN CAMPGROUND LOOP A)		0.00	0.11	0.11	3		NV	
0210	NC		19682		LOWER COVINGTON ROAD	FROM NORTH PARK BOUNDARY	TO END OF LOOP		0.00	4.90	4.90	4		NV	
0211	6	1	39007		SHEEP PASS CAMPGROUND ENTRANCE ROAD	FROM ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 12.22 ON LEFT	TO BEGINNING OF ROUTE 0211A (SHEEP PASS CAMPGROUND LOOP A)		0.29	0.00	0.29	3		AS	1B
0211A	NC		98236		SHEEP PASS CAMPGROUND LOOP A	FROM END OF ROUTE 0211 (SHEEP PASS CAMPGROUND ENTRANCE ROAD)	TO END OF LOOP		0.00	0.22	0.22	3		NV	
0212A	6	1	17237		INDIAN COVE CAMPGROUND ROAD A	FROM END OF ROUTE 5002 (INDIAN COVE ROAD) AT NORTH PARK BOUNDARY	TO ROUTE 0212C (INDIAN COVE CAMPGROUND ROAD C)		1.96	0.00	1.96	2		AS	1
0212B	NC		97988		INDIAN COVE CAMPGROUND ROAD B	FROM ROUTE 0212A (INDIAN COVE CAMPGROUND ROAD A) AT MP 1.68 ON RIGHT	TO END OF LOOP		0.00	0.65	0.65	2		GR	
0212C	NC		97989		INDIAN COVE CAMPGROUND ROAD C	FROM END OF ROUTE 0212A (INDIAN COVE CAMPGROUND ROAD A)	TO END OF LOOP AT END OF ROUTE 0212A		0.00	0.68	0.68	3		NV	
0212D	NC		97990		INDIAN COVE CAMPGROUND ROAD D	FROM ROUTE 0212C (INDIAN COVE CAMPGROUND ROAD C) ON RIGHT	TO END OF LOOP		0.00	0.62	0.62	3		NV	
0212E	NC		97991		INDIAN COVE CAMPGROUND ROAD E	FROM ROUTE 0212C (INDIAN COVE CAMPGROUND ROAD C) ON RIGHT	TO END OF LOOP		0.00	1.31	1.31	3		NV	
0212F	NC		97992		INDIAN COVE CAMPGROUND ROAD F	FROM ROUTE 0212E (INDIAN COVE CAMPGROUND ROAD E) ON LEFT	TO ROUTE 0212C (INDIAN COVE CAMPGROUND ROAD C)		0.00	0.23	0.23	3		NV	

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0213	6	1	19734		49 PALMS OASIS ACCESS ROAD	FROM END OF ROUTE 5005 (49 PALMS CANYON ROAD) AT NORTH PARK BOUNDARY	TO ROUTE 0917 (49 PALMS OASIS PARKING)		0.47	0.00	0.47	2		AS	1
0214ZZ	6	1	16853		BLACK ROCK CAMPGROUND ROADS	FROM END OF ROUTE 5000 (BLACK ROCK CANYON ROAD)	TO END		1.97	0.00	1.97	3		AS	1A
0216	6	1	38992		COTTONWOOD CAMPGROUND ENTRANCE ROAD	FROM ROUTE 0204 (COTTONWOOD SPRINGS CAMPGROUND AND TRAILHEAD)	TO INTERSECTION OF ROUTE 0216A (COTTONWOOD CAMPGROUND LOOP A) AND ROUTE 0216B (COTTONWOOD CAMPGROUND LOOP B)		0.18	0.00	0.18	2		AS	2A
0216A	6	1	16896		COTTONWOOD CAMPGROUND LOOP A	FROM INTERSECTION OF ROUTE 0216 (COTTONWOOD CAMPGROUND ENTRANCE ROAD) AND ROUTE 0216B (COTTONWOOD CAMPGROUND LOOP B)	TO END OF LOOP		0.27	0.00	0.27	3		AS	2A
0216B	6	1	16897		COTTONWOOD CAMPGROUND LOOP B	FROM INTERSECTION OF ROUTE 0216A (COTTONWOOD CAMPGROUND LOOP A) AND END OF ROUTE 0216 (COTTONWOOD CAMPGROUND ENTRANCE ROAD)	TO END OF LOOP		0.34	0.00	0.34	3		AS	2A
0217	NC		77023		BROOKLYN MINE JEEP TRAIL	FROM ROUTE 0103 (OLD DALE ROAD) AT MP 11.377 ON RIGHT	TO PARK BOUNDARY		0.00	2.61	2.61	4		NV	
0218	NC		97993		UPPER COVINGTON ROAD	FROM END OF ROUTE 0219 (COVINGTON CROSSOVER ROAD) ON LEFT	TO END AT CALIFORNIA RIDING AND HIKING TRAILHEAD		0.00	1.93	1.93	4		NV	

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0219	NC		98041		COVINGTON CROSSOVER ROAD	FROM END OF ROUTE 0210 (LOWER COVINGTON ROAD) AT MP 4.24 ON RIGHT	TO INTERSECTION OF ROUTE 0220 (EUREKA PEAK ROAD) AND ROUTE 0218 (UPPER COVINGTON ROAD)		0.00	1.81	1.81	4		NV	
0220	NC		98042		EUREKA PEAK ROAD	FROM END OF ROUTE 0219 (COVINGTON CROSSOVER ROAD) ON RIGHT	TO ROUTE 0948 (EUREKA PEAK PARKING)		0.00	1.36	1.36	4		NV	
0221	NC		19705		PINKHAM CANYON ROAD	FROM ROUTE 0011 (PINTO BASIN ROAD) AT MP 29.72 ON RIGHT	TO SOUTH PARK BOUNDARY		0.00	19.20	19.20	4		NV	
0222	NC		82727		STIRRUP TANK ROAD	FROM ROUTE 0903 (STIRRUP TANK PARKING)	TO END OF LOOP		0.00	1.50	1.50	3		NV	
0223	NC		98235		IVANPAH ROAD	FROM ROUTE 0201 (LIVE OAK PICNIC AREA ROAD) AT MP 0.106 ON LEFT	TO END OF LOOP		0.00	0.09	0.09	3		NV	
0300	NC		19686		GEOLOGY TOUR ROAD	FROM ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 9.73 ON LEFT	TO END OF LOOP		0.00	11.66	11.66	4		NV	
0400	6	1	39008		PINTO WYE ROAD	FROM ROUTE 0011 (PINTO BASIN ROAD) AT MP 0.05 ON LEFT	TO ROUTE 0901 (PINTO WYE PARKING)		0.52	0.00	0.52	6		AS	1C
0401	NC		39009		SHEEP PASS BORROW PIT ROAD	FROM ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 11.71 ON RIGHT	TO END OF LOOP		0.00	0.24	0.24	6		NV	
0402	NC		39010		INDIAN COVE BORROW PIT ROAD	FROM ROUTE 0212E (INDIAN COVE CAMPGROUND ROAD E) AT MP 0.74 ON LEFT	TO BORROW PIT		0.00	0.47	0.47	6		NV	
0403	NC		16905		SMOKE TREE WELL ROAD	FROM ROUTE 0221 (PINKHAM CANYON ROAD)	TO END AT SMOKE TREE WELL		0.00	1.75	1.75	6		NV	
0404	NC		39011		JUNIPER FLATS ROAD	FROM ROUTE 0954 (JUNIPER FLATS BACKCOUNTRY BOARD PARKING)	TO END AT ABANDONED BORROW PIT		0.00	5.00	5.00	6		NV	
0405	NC		17067		KEYS RANCH ROAD	FROM ROUTE 0101 (BARKER DAM ROAD) AT MP 0.67 ON LEFT	TO END AT KEYS RANCH		0.00	2.03	2.03	6		NV	

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Cycle 6 NPS / RIP Route ID Report

(Numerical By Summary Route and Subcomponent #)

Federal Lands Highway
Road Inventory Program

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JOTR *Joshua Tree National Park*

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
0406	6	1	98209		COTTONWOOD RESIDENTIAL ROAD	FROM ROUTE 0204 (COTTONWOOD SPRINGS CAMPGROUND AND TRAILHEAD)	TO END AT UNPAVED TURNAROUND		0.15	0.00	0.15	6		AS	2A
0407	NC		105013		WHISPERING PINES ROAD	FROM ROUTE 0210 (LOWER COVINGTON ROAD)	TO NORTH PARK BOUNDARY		0.00	0.50	0.50	6		NV	
0409	NC		16906		COTTONWOOD WATER TANK ROAD	FROM ROUTE 0204 (COTTONWOOD SPRINGS CAMPGROUND AND TRAILHEAD)	TO WATER TANK		0.00	0.56	0.56	6		NV	
0410	NC		98113		BLACK ROCK WATER TANK ROAD	FROM ROUTE 0214GZ (BLACK ROCK CAMPGROUND ROAD G)	TO AIR QUALITY STATION		0.00	0.64	0.64	6		NV	
0411	6	1	89093		BELLE MOUNTAIN ROAD	FROM END OF ROUTE 0400 (PINTO WYE ROAD)	TO RADIO REPEATER		3.35	0.08	3.43	6		AS	1C
0412	NC		98115		PISTOL RANGE BORROW PIT ROAD	FROM ROUTE 0011 (PINTO BASIN ROAD) AT MP 4.38 ON LEFT	TO MIXING PAD		0.00	0.34	0.34	6		GR	
0413	NC		226466		NOLINA PEAK	FROM ROUTE 0210 (LOWER COVINGTON ROAD)	TO DEAD END		0.00	1.80	1.80	6		GR	

NON-NPS ROADS INVENTORY

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
5000	5	1	101887		BLACK ROCK CANYON ROAD	FROM INTERSECTION OF ROUTE 5006 (HIGHWAY 62 (TWENTYNINE PALMS HIGHWAY)) AND AVALON AVENUE	TO ROUTE 0214ZZ (BLACK ROCK CAMPGROUND ROADS) AT PARK BOUNDARY		4.11	0.00	4.11			AS	1,1A
5001	4	1			PARK BLVD	FROM ROUTE 5006 (HIGHWAY 62 (TWENTYNINE PALMS HIGHWAY))	TO ALTA LOMA DRIVE		1.01	0.00	1.01			AS	1

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Cycle 6 NPS / RIP Route ID Report

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JOTR *Joshua Tree National Park*

NON-NPS ROADS INVENTORY

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
5002	4	1			INDIAN COVE ROAD	FROM ROUTE 5006 (HIGHWAY 62 (TWENTYNINE PALMS HIGHWAY))	TO PARK ROUTE 0212A (INDIAN COVE CAMPGROUND ROAD A) AT PARK BOUNDARY		1.01	0.00	1.01			AS	1
5003	4	1			COTTONWOOD ROAD (STATE ROUTE 195)	FROM INTERSTATE 10 NORTH SIDE AND OFF RAMPS	TO END OF ROUTE 0011 (PINTO BASIN ROAD) AT PARK BOUNDARY		0.94	0.00	0.94			AS	2
5004	5	1			UTAH TRAIL	FROM INTERSECTION OF TWENTYNINE PALMS HIGHWAY AND BEGINNING OF ROUTE 5006 (HIGHWAY 62 (TWENTYNINE PALMS HIGHWAY))	TO BEGINNING OF ROUTE 0012 (EAST-WEST HIGHWAY) AT PARK BOUNDARY		3.96	0.00	3.96			AS	1,1E
5005	4	1			49 PALMS CANYON ROAD	FROM ROUTE 5006 (HIGHWAY 62 (TWENTYNINE PALMS HIGHWAY))	TO BEGINNING OF ROUTE 0213 (49 PALMS OASIS ACCESS ROAD) AT PARK BOUNDARY		1.21	0.00	1.21			AS	1
5006	4	1			HIGHWAY 62 (TWENTYNINE PALMS HIGHWAY)	FROM ROUTE 5004 (UTAH TRAIL) ON LEFT	TO INTERSECTION WITH CA STATE ROUTE 247		22.03	0.00	22.03			AS	1,1E

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	16909		VISITOR CENTER/OASIS OF MARA PARKING	FROM ROUTE 5004 (UTAH TRAIL)	TO NATIONAL PARK DRIVE		PUBLIC	36,786	AS	1E
0901	6	1	19469		PINTO WYE PARKING	FROM END OF ROUTE 0400 (PINTO WYE ROAD)	TO PARKING		NONPUBLIC	42,892	AS	1C
0902	6	1	38993		TWIN TANKS BACKCOUNTRY PARKING	FROM ROUTE 0011 (PINTO BASIN ROAD) AT MP 2.20 ON RIGHT	TO PARKING		PUBLIC	23,562	AS	1C

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JOTR *Joshua Tree 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
0903	6	1	38994		STIRRUP TANK PARKING	FROM ROUTE 0011 (PINTO BASIN ROAD) AT MP 3.11 ON RIGHT	TO ROUTE 0222 (STIRRUP TANK ROAD)		PUBLIC	6,267	AS	1C
0904	6	1	38995		COTTONWOOD VISITOR CENTER	FROM ROUTE 0011 (PINTO BASIN ROAD) AT MP 29.64 ON LEFT	TO ROUTE 0204 (COTTONWOOD SPRINGS CAMPGROUND AND TRAILHEAD)		PUBLIC	17,080	AS	2A
0905	6	1	16801		COTTONWOOD MAINTENANCE YARD PARKING	FROM ROUTE 0406 (COTTONWOOD RESIDENTIAL ROAD)	TO PARKING		NONPUBLIC	10,055	AS	2A
0906	6	1	38997		COTTONWOOD DUMP STATION	FROM ROUTE 0204 (COTTONWOOD SPRINGS CAMPGROUND AND TRAILHEAD)	TO ROUTE 0204 (COTTONWOOD SPRINGS CAMPGROUND AND TRAILHEAD)		PUBLIC	8,788	AS	2A
0907A	6	1	98211		COTTONWOOD CAMPGROUND PARKING A	ADJACENT TO ROUTE 0216 (COTTONWOOD CAMPGROUND ENTRANCE ROAD)			PUBLIC	8,024	AS	2A
0907B	6	1	98212		COTTONWOOD CAMPGROUND PARKING B	ADJACENT TO ROUTE 0216B (COTTONWOOD CAMPGROUND LOOP B) ON LEFT			PUBLIC	884	AS	2A
0907C	6	1	98213		COTTONWOOD CAMPGROUND PARKING C	ADJACENT TO ROUTE 0216A (COTTONWOOD CAMPGROUND LOOP A) ON LEFT			PUBLIC	953	AS	2A
0907D	6	1	98208		COTTONWOOD CAMPGROUND PICNIC PARKING D	ADJACENT TO ROUTE 0216 (COTTONWOOD CAMPGROUND ENTRANCE ROAD)			PUBLIC	757	AS	2A
0908	6	1	38998		COTTONWOOD SPRINGS OASIS PARKING	FROM END OF ROUTE 0204 (COTTONWOOD SPRINGS CAMPGROUND AND TRAILHEAD)	TO PARKING		PUBLIC	16,087	AS	2A
0909	6	1	38999		BAJADA ALL TRAIL PARKING	FROM ROUTE 0011 (PINTO BASIN ROAD) AT MP 35.07 ON LEFT	TO ROUTE 0011 (PINTO BASIN ROAD) AT MP 35.11 ON LEFT		PUBLIC	10,748	AS	2
0910	NC		39000		SPLIT ROCK PICNIC AREA	FROM END OF ROUTE 0200 (SPLIT ROCK PICNIC AREA ROAD)	TO PARKING		PUBLIC		GR	

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JOTR *Joshua Tree 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
0911	6	1	39001		OYSTER BAR TRAILHEAD PARKING	FROM ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 14.01 ON LEFT	TO ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 14.07 ON LEFT		PUBLIC	12,755	AS	1B
0912	6	1	19493		RYAN MOUNTAIN TRAILHEAD PARKING	FROM ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 12.84 ON LEFT	TO ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 12.95 ON LEFT		PUBLIC	33,875	AS	1B
0913	6	1	39002		QUAIL SPRINGS PARKING AREA	FROM ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 19.55 ON LEFT	TO ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 19.60 ON LEFT		PUBLIC	41,172	AS	1
0914	6	1	39003		WEST ENTRANCE STATION	ADJACENT TO ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 25.41 ON LEFT			PUBLIC	7,089	AS	1
0915A	6	1	231794		KEYS VIEW PARKING A	ADJACENT TO ROUTE 0013 (KEY'S VIEW ROAD) AT MP 5.50 ON RIGHT			PUBLIC	1,649	AS	1
0915B	6	1	55566		KEYS VIEW PARKING B	FROM END OF ROUTE 0013 (KEY'S VIEW ROAD) AT MP 5.50 ON RIGHT	TO PARKING		PUBLIC	23,000	AS	1
0916	6	1	39005		INDIAN COVE CONTACT STATION	FROM ROUTE 0212A (INDIAN COVE CAMPGROUND ROAD A) ON RIGHT	TO ROUTE 0212A (INDIAN COVE CAMPGROUND ROAD A) ON RIGHT		PUBLIC	13,155	AS	1
0917	6	1	19730		49 PALMS OASIS PARKING	FROM END OF ROUTE 0213 (49 PALMS OASIS ACCESS ROAD)	TO PARKING		PUBLIC	23,513	AS	1
0918	6	1	39006		HIDDEN VALLEY PICNIC PARKING	FROM ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 16.65 ON LEFT	TO PARKING		PUBLIC	101,532	AS	1B
0919	6	1	98214		NORTH ENTRANCE CONTACT STATION PARKING	ADJACENT TO ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 0.12 ON RIGHT			PUBLIC	3,117	AS	1
0920	6	1	57151		MOJAVE PLANTS PARKING	FROM ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 15.15 ON LEFT	TO ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 15.20 ON LEFT		PUBLIC	13,748	AS	1B
0921	6	1	16847		HEMMINGWAY PARKING	FROM ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 17.63 ON LEFT	TO ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 17.69 ON LEFT		PUBLIC	17,941	AS	1B
0922	6	1	39012		INTERSECTION ROCK PARKING	FROM ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 16.65 ON RIGHT	TO PARKING		PUBLIC	48,820	AS	1B
0923	6	1	19904		BARKER DAM PARKING	FROM END OF ROUTE 0101 (BARKER DAM ROAD)	TO PARKING		PUBLIC	40,595	AS	1B

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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
0924A	NC		105011		INDIAN COVE PARKING AREA A	ADJACENT TO ROUTE 0212B (INDIAN COVE CAMPGROUND ROAD B)			PUBLIC		GR	
0924B	NC		105015		INDIAN COVE PARKING AREA B	ADJACENT TO ROUTE 0212B (INDIAN COVE CAMPGROUND ROAD B)			PUBLIC		GR	
0924C	NC		105019		INDIAN COVE PARKING AREA C	ADJACENT TO ROUTE 0212B (INDIAN COVE CAMPGROUND ROAD B)			PUBLIC		GR	
0924D	NC		105098		INDIAN COVE PARKING AREA D	ADJACENT TO ROUTE 0212B (INDIAN COVE CAMPGROUND ROAD B)			PUBLIC		GR	
0924E	NC		105099		INDIAN COVE PARKING AREA E	ADJACENT TO ROUTE 0212B (INDIAN COVE CAMPGROUND ROAD B)			PUBLIC		GR	
0924F	NC		105100		INDIAN COVE PARKING AREA F	ADJACENT TO ROUTE 0212B (INDIAN COVE CAMPGROUND ROAD B)			PUBLIC		GR	
0924G	NC		105101		INDIAN COVE PARKING AREA G	ADJACENT TO ROUTE 0212B (INDIAN COVE CAMPGROUND ROAD B)			PUBLIC		GR	
0924H	NC		105102		INDIAN COVE PARKING AREA H	ADJACENT TO ROUTE 0212B (INDIAN COVE CAMPGROUND ROAD B)			PUBLIC		GR	
0924I	NC		105103		INDIAN COVE PARKING AREA I	ADJACENT TO ROUTE 0212B (INDIAN COVE CAMPGROUND ROAD B)			PUBLIC		GR	
0924J	NC		105105		INDIAN COVE PARKING AREA J	ADJACENT TO ROUTE 0212B (INDIAN COVE CAMPGROUND ROAD B)			PUBLIC		GR	
0925	6	1	98215		BLACK ROCK CAMPGROUND DUMPSTATION	FROM ROUTE 0214ZZ (BLACK ROCK CAMPGROUND ROADS)	TO ROUTE 0214ZZ (BLACK ROCK CAMPGROUND ROADS))		PUBLIC	5,609	AS	1A
0926	6	1	98216		BLACK ROCK NATURE CENTER PARKING	FROM ROUTE 0214ZZ (BLACK ROCK CAMPGROUND ROADS)	TO ROUTE 0214ZZ (BLACK ROCK CAMPGROUND ROADS))		PUBLIC	16,073	AS	1A
0927	NC		19495		ECHO TEE PARKING	FROM ROUTE 0405 (KEYS RANCH ROAD)	TO PARKING		PUBLIC		GR	
0928	NC		97439		PINE CITY BACKCOUNTRY BOARD PARKING	ADJACENT TO ROUTE 0100 (QUEEN VALLEY CONNECTOR) AT MP 2.972 ON LEFT			PUBLIC		NV	

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JOTR *Joshua Tree 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
0929	NC		98203		LIVE OAK PICNIC PARKING	FROM ROUTE 0201 (LIVE OAK PICNIC AREA ROAD) AT MP 0.126 ON LEFT	TO ROUTE 0201 (LIVE OAK PICNIC AREA ROAD) AT MP 0.151 ON LEFT		PUBLIC		NV	
0930	NC		98151		QUEEN MOUNTAIN PARKING	FROM END OF ROUTE 0108 (ODELL ROAD)	TO PARKING		PUBLIC		NV	
0931	NC		28396		WALL STREET MILL PARKING	FROM END OF ROUTE 0109 (WALL STREET MILL ROAD)	TO PARKING		PUBLIC		NV	
0932	NC		98184		YAEGER COVE PARKING	ADJACENT TO ROUTE 0405 (KEYS RANCH ROAD) AT MP 0.33 ON RIGHT			PUBLIC		NV	
0933A	NC		98217		KEYS RANCH GATE PARKING A	ADJACENT TO ROUTE 0405 (KEYS RANCH ROAD) AT MP 1.10 ON RIGHT			PUBLIC		NV	
0933B	NC		98218		KEYS RANCH GATE PARKING B	ADJACENT TO ROUTE 0405 (KEYS RANCH ROAD) AT MP 1.10 ON LEFT			PUBLIC		NV	
0934	NC		98201		KEYS RANCH TOUR PARKING	FROM ROUTE 0405 (KEYS RANCH ROAD) AT MP 1.79 ON RIGHT	TO ROUTE 0405 (KEYS RANCH ROAD) AT MP 1.89 ON RIGHT		PUBLIC		NV	
0935	NC		98186		NORTH ENTRANCE EXHIBIT PARKING	ADJACENT TO ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 0.55 ON RIGHT			PUBLIC		GR	
0936	6	1	98188		CHOLLA CACTUS GARDEN PARKING	FROM ROUTE 0011 (PINTO BASIN ROAD) AT MP 9.85 ON RIGHT	TO ROUTE 0011 (PINTO BASIN ROAD) AT MP 9.91 ON RIGHT		PUBLIC	14,973	AS	2
0937	6	1	98191		OCOTILLO PATCH PARKING	ADJACENT TO ROUTE 0011 (PINTO BASIN ROAD) AT MP 11.32 ON RIGHT			PUBLIC	7,722	AS	2
0938	6	1	98193		TURKEY FLATS BACKCOUNTRY BOARD PARKING	ADJACENT TO ROUTE 0011 (PINTO BASIN ROAD) AT MP 16.27 ON LEFT			PUBLIC	8,575	AS	2
0939	6	1	98194		PORCUPINE WASH BACKCOUNTRY BOARD PARKING	FROM ROUTE 0011 (PINTO BASIN ROAD) AT MP 21.19 ON RIGHT	TO ROUTE 0011 (PINTO BASIN ROAD) AT MP 21.20 ON RIGHT		PUBLIC	4,259	AS	2
0940	NC		97985		WHITE TANK CAMPGROUND SITES 3-5 PARKING	FROM END OF ROUTE 0206 (WHITE TANK CAMPGROUND ENTRANCE ROAD)	TO PARKING		PUBLIC		NV	

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PARKING AREA INVENTORY (1300 SERIES FMSS LOCATIONS)

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0941	NC		89816		GEOLOGY TOUR RESTROOM PARKING	FROM ROUTE 0300 (GEOLOGY TOUR ROAD)	TO PARKING		PUBLIC		GR	
0942	NC		98195		GEOLOGY TOUR BACKCOUNTRY BOARD PARKING	FROM ROUTE 0300 (GEOLOGY TOUR ROAD)	TO PARKING		PUBLIC		NV	
0943	NC		98196		SQUAW TANK PARKING	FROM ROUTE 0300 (GEOLOGY TOUR ROAD)	TO PARKING		PUBLIC		NV	
0944	NC		98197		PLEASANT VALLEY BACKCOUNTRY BOARD PARKING	FROM ROUTE 0300 (GEOLOGY TOUR ROAD)	TO PARKING		PUBLIC		NV	
0945	NC		98202		BLACK ROCK CAMPGROUND PICNIC PARKING	FROM ROUTE 0214ZZ (BLACK ROCK CAMPGROUND ROADS)	TO PARKING		PUBLIC		NV	
0946	NC		98237		LOWER COVINGTON PICNIC PARKING	FROM ROUTE 0210 (LOWER COVINGTON ROAD)	TO PARKING		PUBLIC		NV	
0947	NC		98238		COVINGTON BACKCOUNTRY BOARD PARKING	FROM ROUTE 0218 (UPPER COVINGTON ROAD)	TO PARKING		PUBLIC		NV	
0948	NC		98240		EUREKA PEAK PARKING	FROM ROUTE 0220 (EUREKA PEAK ROAD)	TO PARKING		PUBLIC		NV	
0949	NC		20060		BOY SCOUT BACKCOUNTRY BOARD PARKING	FROM ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 18.94 ON RIGHT	TO PARKING		PUBLIC		GR	
0950ZZ	NC		19868		LOST HORSE RANGER STATION ROAD PARKING LOTS	ADJACENT TO ROUTE 0102 (LOST HORSE RANGER STATION ROAD) AT MP 0.02 ON LEFT			PUBLIC		GR	
0951A	NC		98225		LOST HORSE MINDLESS MOUND PARKING	ADJACENT TO ROUTE 0102 (LOST HORSE RANGER STATION ROAD) AT MP 0.23 ON LEFT			PUBLIC		NV	
0951B	NC		98226		LOST HORSE FREEWAY WALL PARKING	ADJACENT TO ROUTE 0102 (LOST HORSE RANGER STATION ROAD) AT MP 0.37 ON LEFT			PUBLIC		NV	

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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
0951C	NC		98227		LOST HORSE WALL PARKING	ADJACENT TO ROUTE 0102 (LOST HORSE RANGER STATION ROAD) AT MP 0.50 ON LEFT			PUBLIC		NV	
0951D	NC		98219		LOST HORSE RANGER STATION ROAD GATE PARKING	ADJACENT TO ROUTE 0102 (LOST HORSE RANGER STATION ROAD) AT MP 0.62 ON RIGHT			PUBLIC		NV	
0952	NC		98220		LOST HORSE RANGER STATION PARKING	FROM ROUTE 0102 (LOST HORSE RANGER STATION ROAD)	TO PARKING		PUBLIC	17,124	GR	
0953	6	1	19898		CAP ROCK PARKING	FROM ROUTE 0013 (KEY'S VIEW ROAD) AT MP 0.20 ON LEFT	TO ROUTE 0013 (KEY'S VIEW ROAD) AT MP 0.25 ON LEFT		PUBLIC	33,688	AS	1B
0954	NC		98198		JUNIPER FLATS BACKCOUNTRY BOARD PARKING	FROM ROUTE 0013 (KEY'S VIEW ROAD) AT MP 1.09 ON RIGHT	TO ROUTE 0404 (JUNIPER FLATS ROAD)		PUBLIC		GR	
0955	NC		19494		LOST HORSE MINE PARKING	FROM ROUTE 0106 (LOST HORSE MINE ROAD)	TO PARKING		PUBLIC		GR	
0956	6	1	98200		NORTH ENTRANCE SIGN PARKING	ADJACENT TO ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 0.02 ON RIGHT			PUBLIC	2,913	AS	1
0957	6	1	232183		BARREN OR BOUNTIFUL PARKING	ADJACENT TO ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 23.03 ON LEFT			PUBLIC	4,158	AS	1
0958	6	1	231788		RYAN RANCH PARKING	ADJACENT TO ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 14.37 ON LEFT			PUBLIC	6,292	AS	1B
0959	6	1	19839		HALL OF HORRORS PARKING	FROM ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 13.48 ON RIGHT	TO ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 13.54 ON RIGHT		PUBLIC	17,755	AS	1B
0960ZZ	6	1	98224		JUMBO ROCKS PARKING AREAS	FROM ROUTE 0203ZZ (JUMBO ROCKS CAMPGROUND)	TO PARKING		PUBLIC	8,862	AS	1D
0961	6	1	231792		KEYS VIEW HANDICAPPED PARKING	ADJACENT TO ROUTE 0013 (KEY'S VIEW ROAD) AT MP 5.17 ON LEFT			PUBLIC	1,331	AS	1
0963	NC		101684		BLACK ROCK FIRE CENTER PARKING	FROM ROUTE 0107 (SOUTH PARK ROAD)	TO PARKING		PUBLIC		GR	

Cycle 6 NPS / RIP Route ID Report

Report Date: 12/09/2015

(Numerical By Summary Route and Subcomponent #)

Federal Lands Highway
Road Inventory Program

Shading Color Key

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JOTR *Joshua Tree 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
0964ZZ	6	1	16819		HQ EMPLOYEE PARKING AREAS	FROM ROUTE 0900 (VISITOR CENTER/OASIS OF MARA PARKING)	TO ROUTE 0965 (HQ EMPLOYEE PARKING C)		NONPUBLIC	15,698	AS	1E
0965	NC				HQ EMPLOYEE PARKING C	FROM ROUTE 5004 (UTAH TRAIL)	TO ROUTE 0964ZZ (HQ EMPLOYEE PARKING AREAS)		NONPUBLIC		GR	
0966	NC		232184		TWO DESERTS MEET PARKING	ADJACENT TO ROUTE 0011 (PINTO BASIN ROAD) AT MP 7.08 ON LEFT			PUBLIC		GR	
0967	6	1	232185		SILVER BELL MINE WAYSIDE #75 PARKING	ADJACENT TO ROUTE 0011 (PINTO BASIN ROAD) AT MP 7.89 ON RIGHT			PUBLIC	2,235	AS	2
0968	NC		232186		TREE OF LIFE WAYSIDE #72 PARKING	ADJACENT TO ROUTE 0011 (PINTO BASIN ROAD) AT MP 0.90 ON RIGHT			PUBLIC		GR	
0969	6	1	232200		DESERT GOVERNOR WAYSIDE #79 PARKING	ADJACENT TO ROUTE 0011 (PINTO BASIN ROAD) AT MP 19.78 ON RIGHT			PUBLIC	6,137	AS	2
0970	NC		232202		PINTO PEOPLE/ONLY A VISITOR WAYSIDE EXHIBIT PARKING	ADJACENT TO ROUTE 0011 (PINTO BASIN ROAD) AT MP 21.93			PUBLIC		GR	
0971	NC		232204		OLD DALE/BLACK EAGLE WAYSIDE #88 PARKING	ADJACENT TO ROUTE 0011 (PINTO BASIN ROAD) AT MP 22.87 ON LEFT			PUBLIC		GR	
0972	6	1	232215		SMOKE TREE WASH PARKING	ADJACENT TO ROUTE 0011 (PINTO BASIN ROAD) AT MP 25.20 ON LEFT			PUBLIC	7,461	AS	2
0973	6	1	232221		WOODLAND BOUNTY EXHIBIT PARKING	ADJACENT TO ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 17.02 ON LEFT			PUBLIC	2,597	AS	1B
0974	6	1	232225		A DISTINGUISHED YUCCA WAYSIDE PARKING	ADJACENT TO ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 5.67 ON RIGHT			PUBLIC	2,058	AS	1C
0975	NC		232231		BLACK ROCK BACKCOUNTRY BOARD PARKING	ADJACENT TO ROUTE 0214AZ (BLACK ROCK CAMPGROUND ROAD A)			PUBLIC		GR	
0976	6	1	232232		COLORADO DESERT WAYSIDE PARKING, N COTTONWOOD CYN E SIDE	ADJACENT TO ROUTE 0011 (PINTO BASIN ROAD) AT MP 32.26 ON RIGHT			PUBLIC	2,445	AS	2

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Cycle 6 NPS / RIP Route ID Report

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JOTR *Joshua Tree 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
0977	6	1	232233		SOUTH COLORADO DESERT WAYSIDE PARKING	ADJACENT TO ROUTE 0011 (PINTO BASIN ROAD) AT MP 32.99 ON RIGHT			PUBLIC	3,615	AS	2
0978	6	1	232236		THE ADVENTUROUS YUCCA WAYSIDE PARKING, #54	ADJACENT TO ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 10.64 ON RIGHT			PUBLIC	1,423	AS	1B
0979	NC		232441		MEMORIAL FIRE WAYSIDE PARKING, #70A	ADJACENT TO ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 20.93 ON LEFT			PUBLIC		GR	
0980	6	1	232451		MOJAVE DESERT WAYSIDE EXHIBIT #47 PARKING	ADJACENT TO ROUTE 0013 (KEY'S VIEW ROAD) AT MP 2.51 ON RIGHT			PUBLIC	964	AS	1B
0981	6	1	232482		MOJAVE SYMBOL WAYSIDE PARKING, #51	ADJACENT TO ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 4.56 ON LEFT			PUBLIC	3,397	AS	1C
0982	6	1	232483		RAPID FIRE WAYSIDE PARKING	ADJACENT TO ROUTE 0013 (KEY'S VIEW ROAD) AT MP 0.57 ON RIGHT			PUBLIC	985	AS	1B
0983	6	1	232492		BIGHORNS DOMAIN WAYSIDE PARKING,#55	ADJACENT TO ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 11.94 ON RIGHT			PUBLIC	1,911	AS	1B
0984	6	1	232496		INTRUDER WAYSIDE PARKING,#53	ADJACENT TO ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 7.20 ON RIGHT			PUBLIC	1,931	AS	1D
0985	6	1	232496		TREE OF LIFE WAYSIDE PARKING #58	ADJACENT TO ROUTE 0013 (KEY'S VIEW ROAD) AT MP 1.40 ON LEFT			PUBLIC	931	AS	1B
0986	NC		232795		BOY SCOUT TRAILHEAD PARKING, INDIAN COVER	ADJACENT TO ROUTE 0212A (INDIAN COVE CAMPGROUND ROAD A)			PUBLIC		GR	
0988	6	1			PINTO PEOPLE WAYSIDE PARKING, #81	ADJACENT TO ROUTE 0011 (PINTO BASIN ROAD) AT MP 21.93 ON LEFT			PUBLIC	1,526	AS	2
0989A	6	1			SOUTH ENTRANCE SIGN PARKING A	ADJACENT TO ROUTE 0011 (PINTO BASIN ROAD) AT MP 35.49 ON RIGHT			PUBLIC	2,341	AS	2
0989B	6	1			SOUTH ENTRANCE SIGN PARKING B	ADJACENT TO ROUTE 0011 (PINTO BASIN ROAD) AT MP 35.49 ON LEFT			PUBLIC	2,171	AS	2

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Cycle 6 NPS / RIP Route ID Report

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Cycle 6 Summary Totals for Joshua Tree National Park

Cycle 6 Route Totals

	NPS Maintained	Concessionaire Maintained	Park Totals
Paved Roads, Data Collection Vehicle Rated (Miles)	78.38	0	**78.38**
Paved Roads, Manually Rated Length (Miles)	1.97	0	**1.97**
Paved Roads, Manually Rated Area (Sq. Ft.)	0	0	**0**
Unpaved Roads (Miles)	111.02	0	**111.02**
Paved Parking (Sq. Ft.)	756,880	0	**756,880**
Unpaved Parking (Sq. Ft.)	17,124	0	**17,124**

Cycle 6 Lane Miles and Overall Pavement Condition

	Lanes Miles*	Pavement Condition Rating**
Data Collection Vehicle Routes	159.94	93
Manually Rated Roads	2.21	48
Parking Areas	13.03	81

* 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

Report Date: 12/09/2015

Cycle 6 NPS / RIP Route ID Report

(Numerical By Summary Route and Subcomponent #)

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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: 12/09/2015

NPS / RIP Subcomponent Details for JOTR

(Numerical By Summary Route and Subcomponent #)

Federal Lands Highway
Road Inventory Program

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= Concession Route

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JOTR *Joshua Tree 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)
0203ZZ	19763	6	1		JUMBO ROCKS CAMPGROUND	FROM ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 8.14 ON LEFT	THROUGH CAMPGROUND	1.32	0.00	1.32	3	
0214ZZ	16853	6	1		BLACK ROCK CAMPGROUND ROADS	FROM END OF ROUTE 5000 (BLACK ROCK CANYON ROAD)	TO END	1.97	0.00	1.97	3	

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)
0950ZZ	19868	NC			LOST HORSE RANGER STATION ROAD PARKING LOTS	ADJACENT TO ROUTE 0102 (LOST HORSE RANGER STATION ROAD) AT MP 0.02 ON LEFT		PUBLIC	(1)
0960ZZ	98224	6	1		JUMBO ROCKS PARKING AREAS	FROM ROUTE 0203ZZ (JUMBO ROCKS CAMPGROUND)	TO PARKING	PUBLIC	8,862
0964ZZ	16819	6	1		HQ EMPLOYEE PARKING AREAS	FROM ROUTE 0900 (VISITOR CENTER/OASIS OF MARA PARKING)	TO ROUTE 0965 (HQ EMPLOYEE PARKING C)	NONPUBLIC	15,698

Report Date: 12/09/2015

NPS / RIP Subcomponent Details for JOTR

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JOTR *Joshua Tree National Park*

JOTR-0203ZZ 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)
0203AZ	19763	6	1		JUMBO ROCKS CAMPGROUND LOOP A	FROM ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 8.14 ON LEFT	TO END OF LOOP	0.72	0.00	0.72	3	
0203BZ	19763	6	1		JUMBO ROCKS CAMPGROUND LOOP B	FROM ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A) AT MP 0.17 ON LEFT	TO ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A) AT MP 0.15 ON LEFT	0.07	0.00	0.07	3	
0203CZ	19763	6	1		JUMBO ROCKS CAMPGROUND LOOP C	FROM ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A)) AT MP 0.23 ON LEFT	TO ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A) AT MP 0.20 ON LEFT	0.04	0.00	0.04	3	
0203DZ	19763	6	1		JUMBO ROCKS CAMPGROUND LOOP D	FROM ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A) AT MP 0.25 ON RIGHT	TO ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A) AT MP 0.28 ON RIGHT	0.05	0.00	0.05	3	
0203EZ	19763	6	1		JUMBO ROCKS CAMPGROUND LOOP E	FROM ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A) AT MP 0.29 ON RIGHT	TO ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A) AT MP 0.46 ON RIGHT	0.18	0.00	0.18	3	
0203FZ	19763	6	1		JUMBO ROCKS CAMPGROUND LOOP F	FROM ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A) AT MP 0.37 ON LEFT	TO ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A) AT MP 0.32 ON LEFT	0.08	0.00	0.08	3	
0203GZ	19763	6	1		JUMBO ROCKS CAMPGROUND LOOP G	FROM ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A) AT MP 0.52 ON RIGHT	TO ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A) AT MP 0.56 ON RIGHT	0.18	0.00	0.18	3	

NPS / RIP Subcomponent Details for JOTR

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JOTR *Joshua Tree National Park*

JOTR-0214ZZ 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)
0214AZ	16853	6	1		BLACK ROCK CAMPGROUND ROAD A	FROM INTERSECTION OF ROUTE 5000 (BLACK ROCK CANYON ROAD) AND ROUTE 0214BZ (BLACK ROCK CAMPGROUND ROAD B)	TO ROUTE 0214NZ (BLACK ROCK CAMPGROUND ROAD N)	0.26	0.00	0.26	3	
0214BZ	16853	6	1		BLACK ROCK CAMPGROUND ROAD B	FROM ROUTE 0214AZ (BLACK ROCK CAMPGROUND ROAD A)	TO ROUTE 0214AZ (BLACK ROCK CAMPGROUND ROAD A) AND ROUTE 5000 (BLACK ROCK CANYON ROAD)	0.16	0.00	0.16	3	
0214CZ	16853	6	1		BLACK ROCK CAMPGROUND ROAD C	FROM ROUTE 0214BZ (BLACK ROCK CAMPGROUND ROAD B)	TO ROUTE 0214DZ (BLACK ROCK CAMPGROUND ROAD D)	0.21	0.00	0.21	3	
0214DZ	16853	6	1		BLACK ROCK CAMPGROUND ROAD D	FROM ROUTE 0214BZ (BLACK ROCK CAMPGROUND ROAD B)	TO END	0.20	0.00	0.20	3	
0214EZ	16853	6	1		BLACK ROCK CAMPGROUND ROAD E	FROM ROUTE 0214BZ (BLACK ROCK CAMPGROUND ROAD B)	TO END	0.20	0.00	0.20	3	
0214FZ	16853	6	1		BLACK ROCK CAMPGROUND ROAD F	FROM ROUTE 0214NZ (BLACK ROCK CAMPGROUND ROAD N)	TO END	0.11	0.00	0.11	3	
0214GZ	16853	6	1		BLACK ROCK CAMPGROUND ROAD G	FROM END OF ROUTE 0214NZ (BLACK ROCK CAMPGROUND ROAD N)	TO END	0.11	0.00	0.11	3	
0214HZ	16853	6	1		BLACK ROCK CAMPGROUND ROAD H	FROM BEGINNING OF ROUTE 0214MZ (BLACK ROCK CAMPGROUND ROAD M)	TO END	0.09	0.00	0.09	3	
0214IZ	16853	6	1		BLACK ROCK CAMPGROUND ROAD I	FROM ROUTE 0214AZ (BLACK ROCK CAMPGROUND ROAD A)	TO ROUTE 0214JZ (BLACK ROCK CAMPGROUND ROAD J)	0.06	0.00	0.06	3	
0214JZ	16853	6	1		BLACK ROCK CAMPGROUND ROAD J	FROM ROUTE 0214MZ (BLACK ROCK CAMPGROUND ROAD M)	TO ROUTE 0925 (BLACK ROCK CAMPGROUND DUMPSTATION)	0.10	0.00	0.10	3	
0214KZ	16853	6	1		BLACK ROCK CAMPGROUND ROAD K	FROM END OF ROUTE 0214LZ (BLACK ROCK CAMPGROUND ROAD L)	TO END	0.19	0.00	0.19	3	
0214LZ	16853	6	1		BLACK ROCK CAMPGROUND ROAD L	FROM ROUTE 0214MZ (BLACK ROCK CAMPGROUND ROAD M)	TO BEGINNING OF ROUTE 0214KZ (BLACK ROCK CAMPGROUND ROAD K)	0.10	0.00	0.10	3	
0214MZ	16853	6	1		BLACK ROCK CAMPGROUND ROAD M	FROM BEGINNING OF ROUTE 0214HZ (BLACK ROCK CAMPGROUND ROAD H)	TO END	0.07	0.00	0.07	3	

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NPS / RIP Subcomponent Details for JOTR

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JOTR *Joshua Tree National Park*

JOTR-0214ZZ 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)
0214NZ	16853	6	1		BLACK ROCK CAMPGROUND ROAD N	FROM END OF ROUTE 0214CZ (BLACK ROCK CAMPGROUND ROAD C)	TO ROUTE 0214GZ (BLACK ROCK CAMPGROUND ROAD G)	0.12	0.00	0.12	3	

JOTR-0950ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description From	Route Description To	User Access	Area (SQ FT)
0950AZ	19868	NC			LOST HORSE RANGER STATION ROAD PARKING A	ADJACENT TO ROUTE 0102 (LOST HORSE RANGER STATION ROAD) AT MP 0.02 ON LEFT		PUBLIC	(1)
0950BZ	19868	NC			LOST HORSE RANGER STATION ROAD PARKING B	ADJACENT TO ROUTE 0102 (LOST HORSE RANGER STATION ROAD) AT MP 0.07 ON LEFT		PUBLIC	(1)

JOTR-0960ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description From	Route Description To	User Access	Area (SQ FT)
0960AZ	98224	6	1		JUMBO ROCKS DAY USE PKG	FROM ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A) AT MP 0.02 ON LEFT	TO ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A) AT MP 0.05 ON LEFT	PUBLIC	3,960
0960BZ	98224	6	1		SKULL ROCK TRAIL AND AMPHITHEATER PARKING	ADJACENT TO ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A) AT MP 0.38 ON RIGHT		PUBLIC	1,058
0960CZ	98224	6	1		SITES 72 THROUGH 76 PARKING	FROM ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A) AT MP 0.67 ON RIGHT	TO PARKING	PUBLIC	3,844

Report Date: 12/09/2015

NPS / RIP Subcomponent Details for JOTR

(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

JOTR *Joshua Tree National Park*

JOTR-0964ZZ Subcomponent Breakdown

Route Number	FMSS Number	Cycle Collected	Iteration Collected	Concession	Route Name	Route Description From	Route Description To	User Access	Area (SQ FT)
0964AZ	16819	6	1		HQ EMPLOYEE PARKING A	FROM ROUTE 0900 (VISITOR CENTER/OASIS OF MARA PARKING)	TO ROUTE 0965 (HQ EMPLOYEE PARKING C)	NONPUBLIC	12,113
0964BZ	16819	6	1		HQ EMPLOYEE PARKING B	FROM ROUTE 0965 (HQ EMPLOYEE PARKING C)	TO PARKING	NONPUBLIC	3,585

Route Identification Changes to Paved Routes from Previous Cycle
Joshua Tree National Park

ROUTES ADDED FROM PREVIOUS INVENTORY:			
Route No.	**Route Name**	**Type of Change**	**Comments**
0967	SILVER BELL MINE WAYSIDE #75 PARKING	OTHER	PAVED WAYSIDE EXHIBIT AREA WAS ADDED TO THE PARKING INVENTORY IN CYCLE 6.
0969	DESERT GOVERNOR WAYSIDE #79 PARKING	OTHER	PAVED WAYSIDE EXHIBIT AREA WAS ADDED TO THE PARKING INVENTORY IN CYCLE 6.
0972	SMOKE TREE WASH PARKING	OTHER	PAVED WAYSIDE EXHIBIT AREA WAS ADDED TO THE PARKING INVENTORY IN CYCLE 6.
0973	WOODLAND BOUNTY EXHIBIT PARKING	OTHER	PAVED WAYSIDE EXHIBIT AREA WAS ADDED TO THE PARKING INVENTORY IN CYCLE 6.
0974	A DISTINGUISHED YUCCA WAYSIDE PARKING	OTHER	PAVED WAYSIDE EXHIBIT AREA WAS ADDED TO THE PARKING INVENTORY IN CYCLE 6.
0976	COLORADO DESERT WAYSIDE PARKING, N COTTONWOOD CYN E SIDE	OTHER	PAVED WAYSIDE EXHIBIT AREA WAS ADDED TO THE PARKING INVENTORY IN CYCLE 6.
0977	SOUTH COLORADO DESERT WAYSIDE PARKING	OTHER	PAVED WAYSIDE EXHIBIT AREA WAS ADDED TO THE PARKING INVENTORY IN CYCLE 6.
0978	THE ADVENTUROUS YUCCA WAYSIDE PARKING, #54	OTHER	PAVED WAYSIDE EXHIBIT AREA WAS ADDED TO THE PARKING INVENTORY IN CYCLE 6.
0980	MOJAVE DESERT WAYSIDE EXHIBIT #48 PARKING	OTHER	PAVED WAYSIDE EXHIBIT AREA WAS ADDED TO THE PARKING INVENTORY IN CYCLE 6.
0981	MOJAVE SYMBOL WAYSIDE PARKING, #51	OTHER	PAVED WAYSIDE EXHIBIT AREA WAS ADDED TO THE PARKING INVENTORY IN CYCLE 6.
0982	RAPID FIRE WAYSIDE PARKING	OTHER	PAVED WAYSIDE EXHIBIT AREA WAS ADDED TO THE PARKING INVENTORY IN CYCLE 6.
0983	BIGHORNS DOMAIN WAYSIDE PARKING,#55	OTHER	PAVED WAYSIDE EXHIBIT AREA WAS ADDED TO THE PARKING INVENTORY IN CYCLE 6.
0984	INTRUDER WAYSIDE PARKING,#53	OTHER	PAVED WAYSIDE EXHIBIT AREA WAS ADDED TO THE PARKING INVENTORY IN CYCLE 6.
0985	TREE OF LIFE WAYSIDE PARKING #58	OTHER	PAVED WAYSIDE EXHIBIT AREA WAS ADDED TO THE PARKING INVENTORY IN CYCLE 6.
0988	PINTO PEOPLE WAYSIDE PARKING, #81	OTHER	PAVED WAYSIDE EXHIBIT AREA WAS ADDED TO THE PARKING INVENTORY IN CYCLE 6.

Route Identification Changes to Paved Routes from Previous Cycle
Joshua Tree National Park

ROUTES ADDED FROM PREVIOUS INVENTORY:			
Route No.	**Route Name**	**Type of Change**	**Comments**
0989A	SOUTH ENTRANCE SIGN PARKING A	OTHER	PAVED PARKING FOR ENTRANCE SIGN ADDED TO THE PARKING INVENTORY IN CYCLE 6.
0989B	SOUTH ENTRANCE SIGN PARKING B	OTHER	PAVED PARKING FOR ENTRANCE SIGN ADDED TO THE PARKING INVENTORY IN CYCLE 6.

ROUTES MODIFIED FROM PREVIOUS INVENTORY:			
Route No.	**Route Name**	**Type of Change**	**Comments**
0011	PINTO BASIN ROAD	REALIGNED	PORTIONS OF THIS ROUTE WERE REALIGNED SINCE CYCLE 5. THE ROUTE LENGTH WAS UPDATED AND NEW GPS WAS COLLECTED.
0013	KEY'S VIEW ROAD	FUNCTIONAL CLASS CHANGE	FUNCTIONAL CLASS CHANGED FROM 1 TO 2 IN CYCLE 6 PER THE PARK'S REQUEST.
0400	PINTO WYE ROAD	FUNCTIONAL CLASS CHANGE	ROUTE NAME CHANGED FROM "MAINTENANCE ROAD" IN CYCLE 6 ROUTE ID MEETING TO MATCH FMSS DESCRIPTION. FUNCTIONAL CLASS CHANGED FROM 5 TO 6 BECAUSE ROUTE IS RESTRICTED TO PARK STAFF AND MAINTENANCE PERSONNEL.
0406	COTTONWOOD RESIDENTIAL ROAD	FUNCTIONAL CLASS CHANGE	FUNCTIONAL CLASS CHANGED DURING CYCLE 6 ROUTE ID MEETING FROM 5 TO 6 BECAUSE ROAD IS FOR PARK RESIDENTS ONLY.
0901	PINTO WYE PARKING	ROUTE NAME	ROUTE NAME CHANGED FROM "MAINTENANCE YARD PARKING" DURING CYCLE 6 ROUTE ID MEETING TO MATCH FMSS DESCRIPTION.
0936	CHOLLA CACTUS GARDEN PARKING	SURFACE TYPE CHANGE	ROUTE WAS PAVED DURING THE ROUTE 0011 REALIGNMENT PROJECT. SURFACE TYPE CHANGED FROM GRAVEL TO ASPHALT.
0937	OCOTILLO PATCH PARKING	SURFACE TYPE CHANGE	ROUTE WAS PAVED DURING THE ROUTE 0011 REALIGNMENT PROJECT. SURFACE TYPE CHANGED FROM GRAVEL TO ASPHALT.
0938	TURKEY FLATS BACKCOUNTRY BOARD PARKING	SURFACE TYPE CHANGE	ROUTE WAS PAVED DURING THE ROUTE 0011 REALIGNMENT PROJECT. SURFACE TYPE CHANGED FROM GRAVEL TO ASPHALT.
0939	PORCUPINE WASH BACKCOUNTRY BOARD PARKING	SURFACE TYPE CHANGE	ROUTE WAS PAVED DURING THE ROUTE 0011 REALIGNMENT PROJECT. SURFACE TYPE CHANGED FROM GRAVEL TO ASPHALT.

Section 3
Park Summary Information

Joshua Tree National Park

Federal Lands Highway
Road Inventory Program

Parkwide Paved Route Condition Summary
Joshua Tree National Park

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

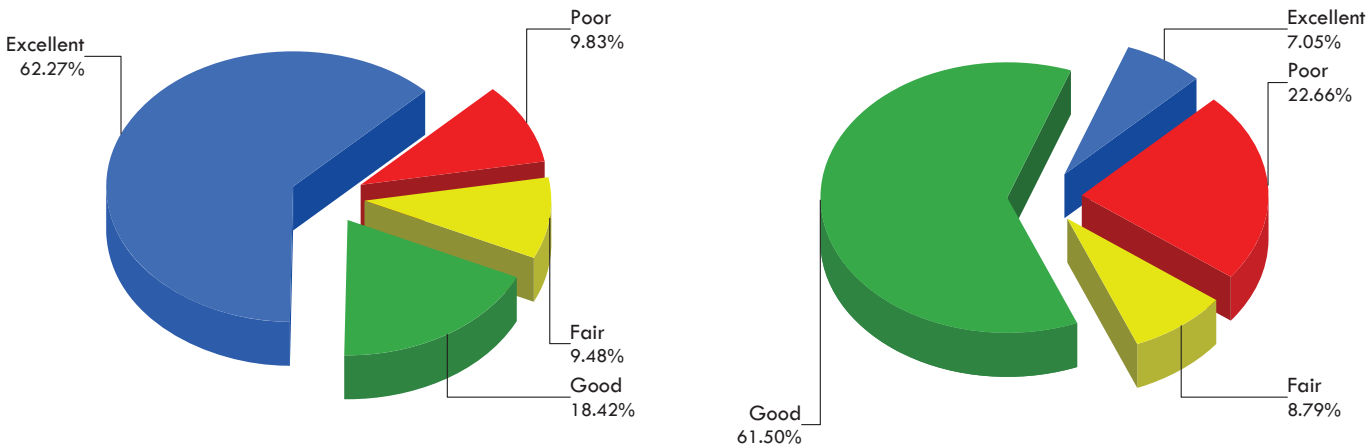
Breakdown of Pavement Condition Rating (PCR) Based on Access Level

	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	0.82	4.46	12.42	43.30	61.00
2	0.28	1.42	1.56	6.36	9.62
3	3.34	1.32	0.70	0.35	5.71
4					
5					
6	3.47	0.42	0.13		4.02
7					
8					
Total Mileage by PCR	**7.90**	**7.62**	**14.81**	**50.01**	**80.34**
PAVED PARKING					
Access Level	**Area (sq. ft.)**	**Area (sq. ft.)**	**Area (sq. ft.)**	**Area (sq. ft.)**	**Total Area**
PUBLIC	114,976	66,544	453,339	53,376	688,235
NONPUBLIC	56,532		12,113		68,645
Total Area by PCR	**171,508**	**66,544**	**465,452**	**53,376**	**756,880**

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

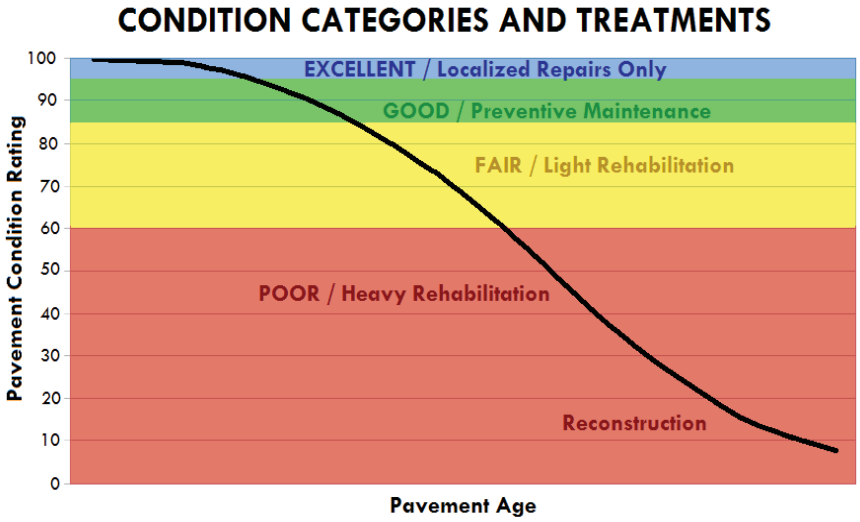
The Road Inventory Program aims to provide assistance in translating the excellent / good / fair / poor rating categories into pavement needs categories. The PCR can be used to indicate the place in the Pavement Life Cycle and the type of treatments that should be considered now and into the future.

- 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

Joshua Tree 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
JOTR-0011	16798	PINTO BASIN ROAD	1	AS	35.54	99	100	98	100	100	100	98	100	100
JOTR-0012	16832	EAST-WEST HIGHWAY	1	AS	25.46	97	100	95	98	100	98	95	100	99
JOTR-0013	19875	KEY'S VIEW ROAD	2	AS	5.50	99	100	99	99	100	99	99	100	100
JOTR-0101	19903	BARKER DAM ROAD	2	AS	1.51	98	97	99	100	100	100	100	100	99
JOTR-0203AZ	19763	JUMBO ROCKS CAMPGROUND LOOP A	3	AS	0.72	65	NR	65	86	100	86	65	100	97
JOTR-0203BZ	19763	JUMBO ROCKS CAMPGROUND LOOP B	3	AS	0.07	71	NR	71	98	100	98	71	100	95
JOTR-0203CZ	19763	JUMBO ROCKS CAMPGROUND LOOP C	3	AS	0.04	63	NR	63	84	100	84	63	100	87
JOTR-0203DZ	19763	JUMBO ROCKS CAMPGROUND LOOP D	3	AS	0.05	67	NR	67	97	100	97	67	100	95
JOTR-0203EZ	19763	JUMBO ROCKS CAMPGROUND LOOP E	3	AS	0.18	65	NR	65	88	100	88	65	100	93
JOTR-0203FZ	19763	JUMBO ROCKS CAMPGROUND LOOP F	3	AS	0.08	63	NR	63	97	100	97	63	100	95
JOTR-0203GZ	19763	JUMBO ROCKS CAMPGROUND LOOP G	3	AS	0.18	52	NR	52	75	100	75	52	100	95
JOTR-0204	16807	COTTONWOOD SPRINGS CAMPGROUND AND TRAILHEAD	3	AS	1.14	63	61	64	78	100	78	64	100	97
JOTR-0205	16892	BELLE CAMPGROUND ROAD	3	AS	0.12	83	NR	83	99	100	99	83	100	95
JOTR-0206	16893	WHITE TANK CAMPGROUND ENTRANCE ROAD	3	AS	0.14	67	NR	67	99	100	99	67	100	97
JOTR-0207	97986	HIDDEN VALLEY CAMPGROUND ENTRANCE ROAD	3	AS	0.12	97	NR	97	100	100	100	100	100	97
JOTR-0211	39007	SHEEP PASS CAMPGROUND ENTRANCE ROAD	3	AS	0.29	99	NR	99	100	100	100	100	100	99
JOTR-0212A	17237	INDIAN COVE CAMPGROUND ROAD A	2	AS	1.96	80	72	86	86	100	86	89	100	90
JOTR-0213	19734	49 PALMS OASIS ACCESS ROAD	2	AS	0.47	90	NR	90	90	100	90	91	100	93
JOTR-0216	38992	COTTONWOOD CAMPGROUND ENTRANCE ROAD	2	AS	0.18	38	NR	38	67	100	67	38	100	97

Data Collection Date: 05/2015

Federal Lands Highway
Road Inventory Program

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

Joshua Tree 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
JOTR-0216A	16896	COTTONWOOD CAMPGROUND LOOP A	3	AS	0.27	27	NR	27	67	100	67	27	100	93
JOTR-0216B	16897	COTTONWOOD CAMPGROUND LOOP B	3	AS	0.34	27	NR	27	74	100	74	27	100	96
JOTR-0400	39008	PINTO WYE ROAD	6	AS	0.52	66	60	70	94	100	94	70	100	98
JOTR-0406	98209	COTTONWOOD RESIDENTIAL ROAD	6	AS	0.15	88	NR	88	88	100	88	88	100	96
JOTR-0411	89093	BELLE MOUNTAIN ROAD	6	AS	3.35	0	NR	0	0	0	0	50	100	78

Data Collection Date: 05/2015

Federal Lands Highway
Road Inventory Program

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

Joshua Tree 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
JOTR-0214AZ	16853	BLACK ROCK CAMPGROUND ROAD A	3	AS	0.26	90	NR	90	NR	90	90	90	90	90
JOTR-0214BZ	16853	BLACK ROCK CAMPGROUND ROAD B	3	AS	0.16	90	NR	90	NR	90	90	90	90	90
JOTR-0214CZ	16853	BLACK ROCK CAMPGROUND ROAD C	3	AS	0.21	30	NR	30	NR	30	30	53	97	53
JOTR-0214DZ	16853	BLACK ROCK CAMPGROUND ROAD D	3	AS	0.20	30	NR	30	NR	30	30	53	30	53
JOTR-0214EZ	16853	BLACK ROCK CAMPGROUND ROAD E	3	AS	0.20	30	NR	30	NR	30	30	53	30	53
JOTR-0214FZ	16853	BLACK ROCK CAMPGROUND ROAD F	3	AS	0.11	30	NR	30	NR	30	30	53	30	53
JOTR-0214GZ	16853	BLACK ROCK CAMPGROUND ROAD G	3	AS	0.11	30	NR	30	NR	30	30	53	30	53
JOTR-0214HZ	16853	BLACK ROCK CAMPGROUND ROAD H	3	AS	0.09	30	NR	30	NR	30	30	53	30	53
JOTR-0214IZ	16853	BLACK ROCK CAMPGROUND ROAD I	3	AS	0.06	53	NR	53	NR	53	73	73	97	53
JOTR-0214JZ	16853	BLACK ROCK CAMPGROUND ROAD J	3	AS	0.10	53	NR	53	NR	53	73	73	97	53
JOTR-0214KZ	16853	BLACK ROCK CAMPGROUND ROAD K	3	AS	0.19	30	NR	30	NR	30	30	53	30	53
JOTR-0214LZ	16853	BLACK ROCK CAMPGROUND ROAD L	3	AS	0.10	30	NR	30	NR	30	30	53	30	53
JOTR-0214MZ	16853	BLACK ROCK CAMPGROUND ROAD M	3	AS	0.07	30	NR	30	NR	30	30	53	30	53
JOTR-0214NZ	16853	BLACK ROCK CAMPGROUND ROAD N	3	AS	0.12	30	NR	30	NR	30	30	53	30	53

Data Collection Date: 02/2015

Federal Lands Highway
Road Inventory Program

Cycle 6 - Road Inventory Program
Parking Area Condition Summary Report

Joshua Tree 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
JOTR-0900	16909	VISITOR CENTER/OASIS OF MARA PARKING	PUBLIC	AS	36,786	53	73	53	73	97	97	73					
JOTR-0901	19469	PINTO WYE PARKING	NONPUBLIC	AS	42,892	53	90	53	73	97	97	73					
JOTR-0902	38993	TWIN TANKS BACKCOUNTRY PARKING	PUBLIC	AS	23,562	53	90	53	90	97	97	73					
JOTR-0903	38994	STIRRUP TANK PARKING	PUBLIC	AS	6,267	53	90	53	73	97	97	90					
JOTR-0904	38995	COTTONWOOD VISITOR CENTER	PUBLIC	AS	17,080	90	90	90	90	97	97	97					
JOTR-0905	16801	COTTONWOOD MAINTENANCE YARD PARKING	NONPUBLIC	AS	10,055	53	73	53	73	97	97	90					
JOTR-0906	38997	COTTONWOOD DUMP STATION	PUBLIC	AS	8,788	53	90	53	73	97	97	73					
JOTR-0907A	98211	COTTONWOOD CAMPGROUND PARKING A	PUBLIC	AS	8,024	53	97	53	90	97	97	73					
JOTR-0907B	98212	COTTONWOOD CAMPGROUND PARKING B	PUBLIC	AS	884	53	97	53	73	97	97	73					
JOTR-0907C	98213	COTTONWOOD CAMPGROUND PARKING C	PUBLIC	AS	953	73	97	90	90	97	97	73					
JOTR-0907D	98208	COTTONWOOD CAMPGROUND PICNIC PARKING D	PUBLIC	AS	757	73	97	90	90	97	97	73					
JOTR-0908	38998	COTTONWOOD SPRINGS OASIS PARKING	PUBLIC	AS	16,087	90	97	90	90	97	97	90					
JOTR-0909	38999	BAJADA ALL TRAIL PARKING	PUBLIC	AS	10,748	53	97	53	90	97	97	90					
JOTR-0911	39001	OYSTER BAR TRAILHEAD PARKING	PUBLIC	AS	12,755	90	90	90	90	97	97	90					
JOTR-0912	19493	RYAN MOUNTAIN TRAILHEAD PARKING	PUBLIC	AS	33,875	90	97	90	90	97	97	90					
JOTR-0913	39002	QUAIL SPRINGS PARKING AREA	PUBLIC	AS	41,172	90	97	90	97	97	97	97					
JOTR-0914	39003	WEST ENTRANCE STATION	PUBLIC	AS	7,089	73	90	90	90	97	97	73					
JOTR-0915A	231794	KEYS VIEW PARKING A	PUBLIC	AS	1,649	97	97	97	97	97	97	97					
JOTR-0915B	55566	KEYS VIEW PARKING B	PUBLIC	AS	23,000	97	97	97	97	97	97	97					
JOTR-0916	39005	INDIAN COVE CONTACT STATION	PUBLIC	AS	13,155	73	97	90	90	97	97	73					
JOTR-0917	19730	49 PALMS OASIS PARKING	PUBLIC	AS	23,513	73	90	90	90	97	97	73					
JOTR-0918	39006	HIDDEN VALLEY PICNIC PARKING	PUBLIC	AS	101,532	90	90	90	90	97	97	97					
JOTR-0919	98214	NORTH ENTRANCE CONTACT STATION PARKING	PUBLIC	AS	3,117	90	97	90	97	97	97	90					
JOTR-0920	57151	MOJAVE PLANTS PARKING	PUBLIC	AS	13,748	90	97	90	97	97	97	90					
JOTR-0921	16847	HEMMINGWAY PARKING	PUBLIC	AS	17,941	90	97	97	97	97	97	90					
JOTR-0922	39012	INTERSECTION ROCK PARKING	PUBLIC	AS	48,820	90	90	90	90	97	97	90					

Data Collection Date: 02/2015

Federal Lands Highway
Road Inventory Program

Cycle 6 - Road Inventory Program
Parking Area Condition Summary Report

Joshua Tree 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
JOTR-0923	19904	BARKER DAM PARKING	PUBLIC	AS	40,595	90	90	90	97	97	97	90					
JOTR-0925	98215	BLACK ROCK CAMPGROUND DUMPSTATION	PUBLIC	AS	5,609	73	73	90	73	73	97	73					
JOTR-0926	98216	BLACK ROCK NATURE CENTER PARKING	PUBLIC	AS	16,073	53	53	53	53	73	90	90					
JOTR-0936	98188	CHOLLA CACTUS GARDEN PARKING	PUBLIC	AS	14,973	90	97	90	97	97	97	97					
JOTR-0937	98191	OCOTILLO PATCH PARKING	PUBLIC	AS	7,722	90	97	90	97	97	97	97					
JOTR-0938	98193	TURKEY FLATS BACKCOUNTRY BOARD PARKING	PUBLIC	AS	8,575	90	97	90	97	97	97	97					
JOTR-0939	98194	PORCUPINE WASH BACKCOUNTRY BOARD PARKING	PUBLIC	AS	4,259	97	97	97	97	97	97	97					
JOTR-0953	19898	CAP ROCK PARKING	PUBLIC	AS	33,688	90	97	90	97	97	97	97					
JOTR-0956	98200	NORTH ENTRANCE SIGN PARKING	PUBLIC	AS	2,913	90	97	90	97	97	97	90					
JOTR-0957	232183	BARREN OR BOUNTIFUL PARKING	PUBLIC	AS	4,158	90	90	90	90	90	97	97					
JOTR-0958	231788	RYAN RANCH PARKING	PUBLIC	AS	6,292	73	97	90	90	97	97	73					
JOTR-0959	19839	HALL OF HORRORS PARKING	PUBLIC	AS	17,755	90	97	90	97	97	97	90					
JOTR-0960AZ	98224	JUMBO ROCKS DAY USE PKG	PUBLIC	AS	3,960	90	97	90	90	97	97	90					
JOTR-0960BZ	98224	SKULL ROCK TRAIL AND AMPHITHEATER PARKING	PUBLIC	AS	1,058	73	90	90	90	97	97	73					
JOTR-0960CZ	98224	SITES 72 THROUGH 76 PARKING	PUBLIC	AS	3,844	53	73	53	73	97	97	73					
JOTR-0961	231792	KEYS VIEW HANDICAPPED PARKING	PUBLIC	AS	1,331	90	97	97	97	97	97	90					
JOTR-0964AZ	16819	HQ EMPLOYEE PARKING A	NONPUBLIC	AS	12,113	90	97	90	97	97	97	97					
JOTR-0964BZ	16819	HQ EMPLOYEE PARKING B	NONPUBLIC	AS	3,585	53	53	53	73	97	97	73					
JOTR-0967	232185	SILVER BELL MINE WAYSIDE #75 PARKING	PUBLIC	AS	2,235	97	97	97	97	97	97	97					
JOTR-0969	232200	DESERT GOVERNOR WAYSIDE #79 PARKING	PUBLIC	AS	6,137	97	97	97	97	97	97	97					
JOTR-0972	232215	SMOKE TREE WASH PARKING	PUBLIC	AS	7,461	97	97	97	97	97	97	97					
JOTR-0973	232221	WOODLAND BOUNTY EXHIBIT PARKING	PUBLIC	AS	2,597	97	97	97	97	97	97	97					
JOTR-0974	232225	A DISTINGUISHED YUCCA WAYSIDE PARKING	PUBLIC	AS	2,058	73	90	90	90	97	97	73					
JOTR-0976	232232	COLORADO DESERT WAYSIDE PARKING, N COTTONWOOD CYN E SIDE	PUBLIC	AS	2,445	73	97	90	90	97	97	73					
JOTR-0977	232233	SOUTH COLORADO DESERT WAYSIDE PARKING	PUBLIC	AS	3,615	73	97	90	90	97	97	73					
JOTR-0978	232236	THE ADVENTUROUS YUCCA WAYSIDE PARKING, #54	PUBLIC	AS	1,423	90	97	90	90	97	97	90					

Data Collection Date: 02/2015

Federal Lands Highway
Road Inventory Program

Cycle 6 - Road Inventory Program
Parking Area Condition Summary Report

Joshua Tree 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
JOTR-0980	232451	MOJAVE DESERT WAYSIDE EXHIBIT #48 PARKING	PUBLIC	AS	964	90	97	90	97	97	97	90					
JOTR-0981	232482	MOJAVE SYMBOL WAYSIDE PARKING, #51	PUBLIC	AS	3,397	90	97	90	97	97	97	97					
JOTR-0982	232483	RAPID FIRE WAYSIDE PARKING	PUBLIC	AS	985	90	97	97	97	97	97	90					
JOTR-0983	232492	BIGHORNS DOMAIN WAYSIDE PARKING,#55	PUBLIC	AS	1,911	90	90	90	90	97	97	90					
JOTR-0984	232496	INTRUDER WAYSIDE PARKING,#53	PUBLIC	AS	1,931	90	90	90	97	97	97	90					
JOTR-0985	232496	TREE OF LIFE WAYSIDE PARKING #58	PUBLIC	AS	931	90	97	97	97	97	97	90					
JOTR-0988	N/A	PINTO PEOPLE WAYSIDE PARKING, #81	PUBLIC	AS	1,526	97	97	97	97	97	97	97					
JOTR-0989A	N/A	SOUTH ENTRANCE SIGN PARKING A	PUBLIC	AS	2,341	97	97	97	97	97	97	97					
JOTR-0989B	N/A	SOUTH ENTRANCE SIGN PARKING B	PUBLIC	AS	2,171	97	97	97	97	97	97	97					

Data Collection Date: 02/2015

Section 4
Park Route Location Maps

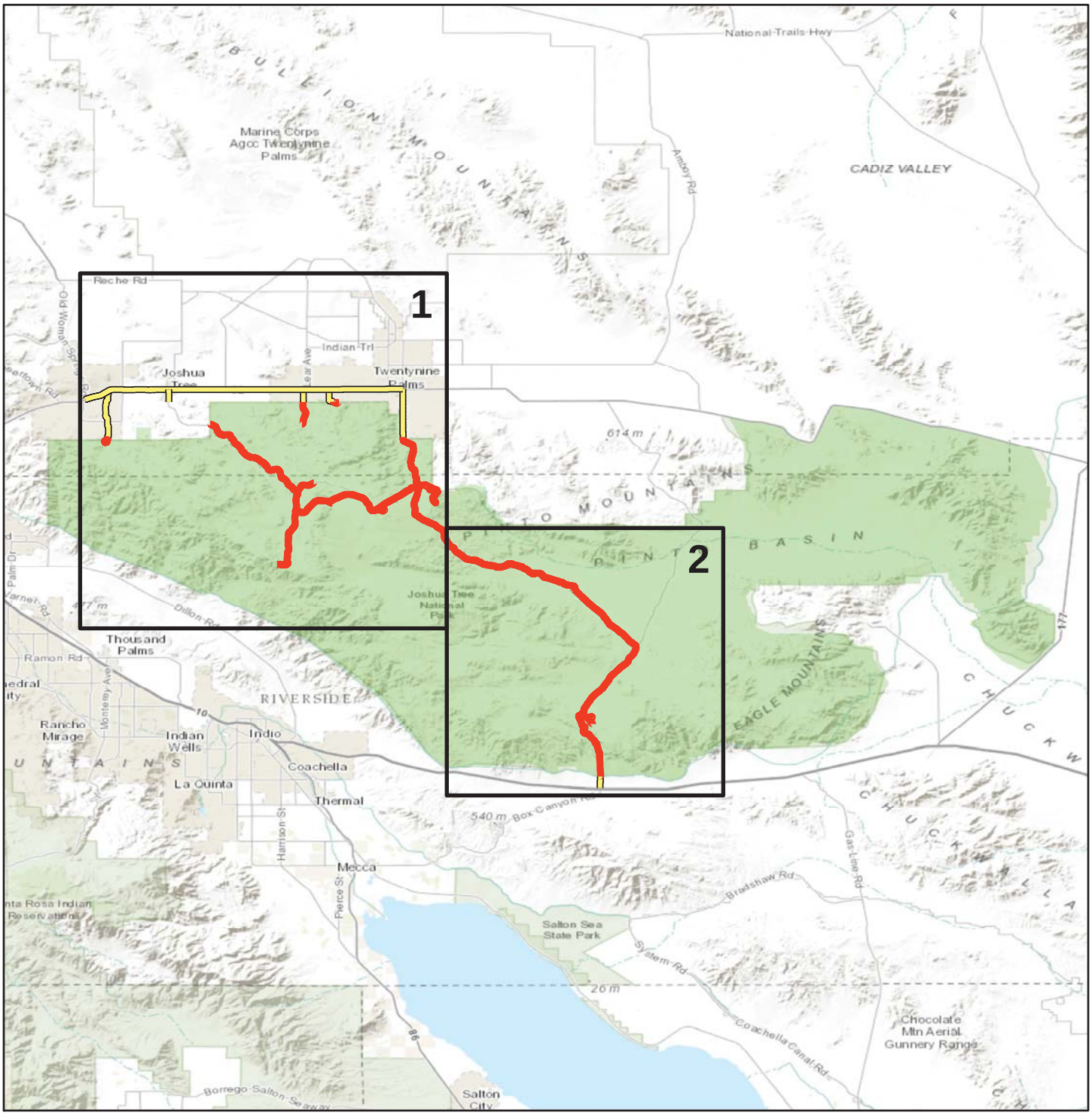
Joshua Tree National Park

Federal Lands Highway
Road Inventory Program

Joshua Tree National Park

ROUTE LOCATION MAP

Key Map



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

NPS Collected Routes

Non-NPS Collected Routes

Miles

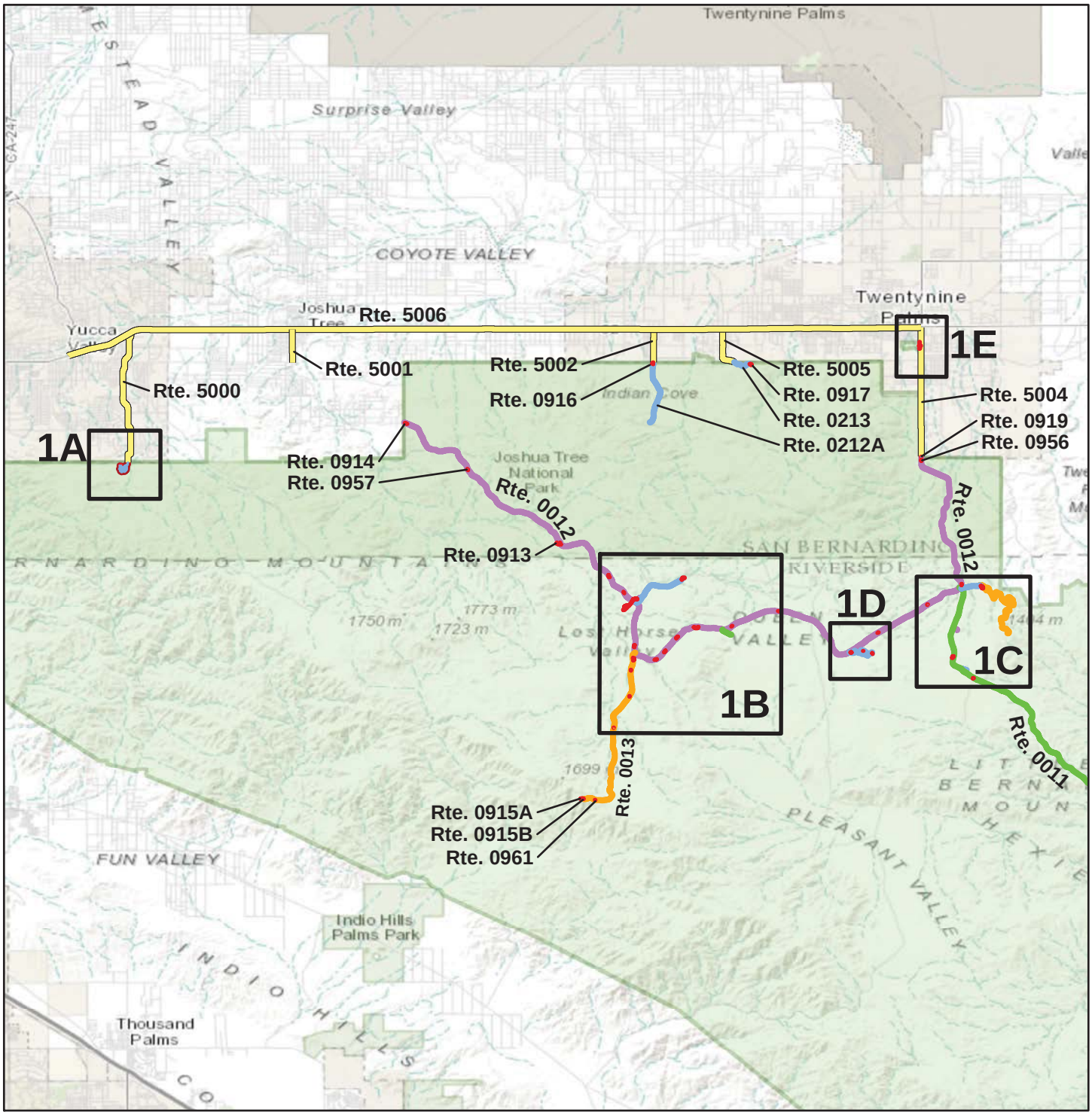
0 25 50

N

Joshua Tree National Park

ROUTE LOCATION MAP

Area Map 1



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

Note: Unique colors are used to differentiate roads

Non-NPS Collected Routes

Miles

0 10 20

N

Joshua Tree National Park

ROUTE LOCATION MAP

Area Map 1A

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

Note: Unique colors are used to differentiate roads

Non-NPS Collected Routes

Miles

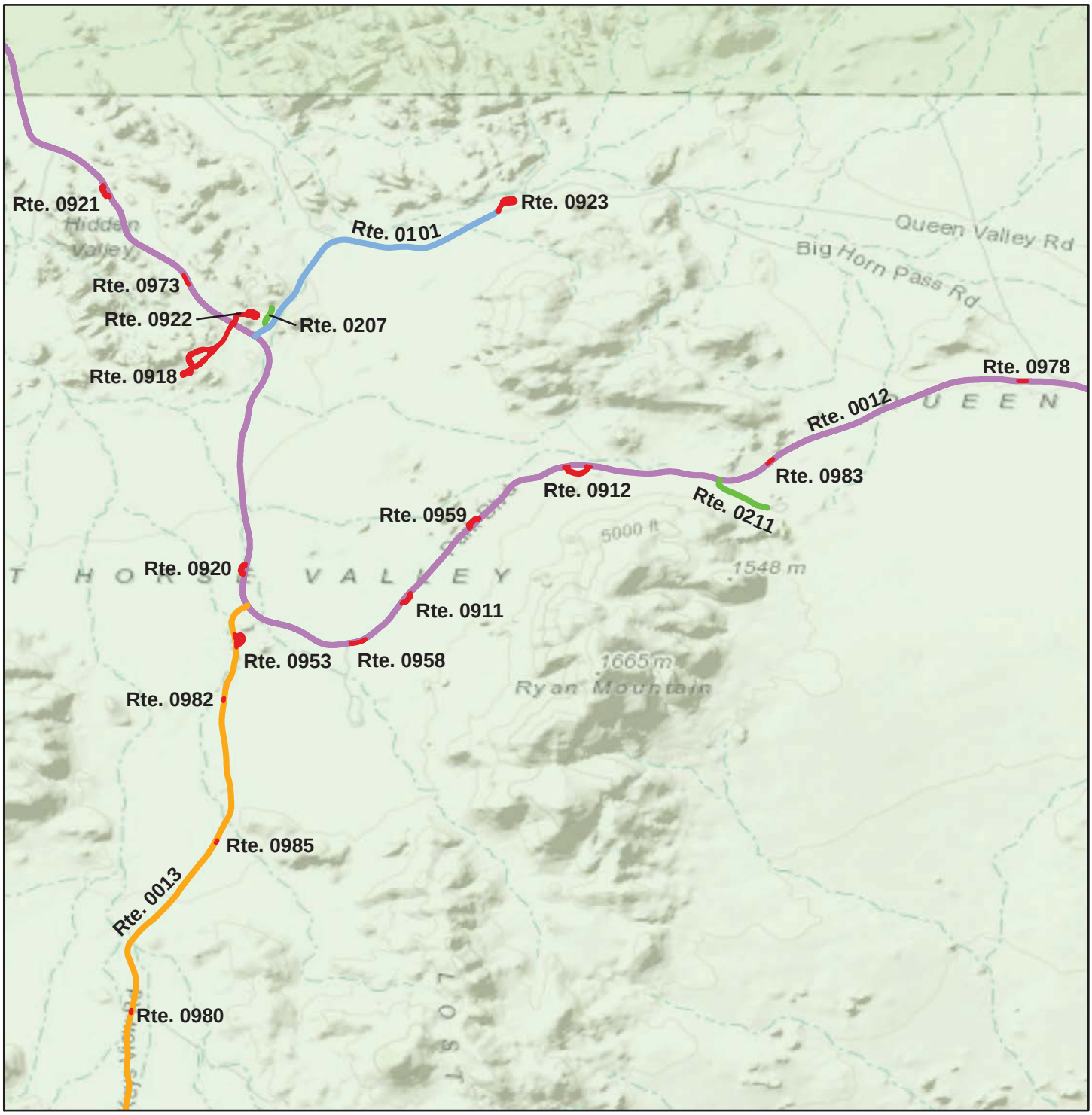
0 0.25 0.5

N

Joshua Tree National Park

ROUTE LOCATION MAP

Area Map 1B



Note: Unique colors are used to differentiate roads

Non-NPS Collected Routes

Miles

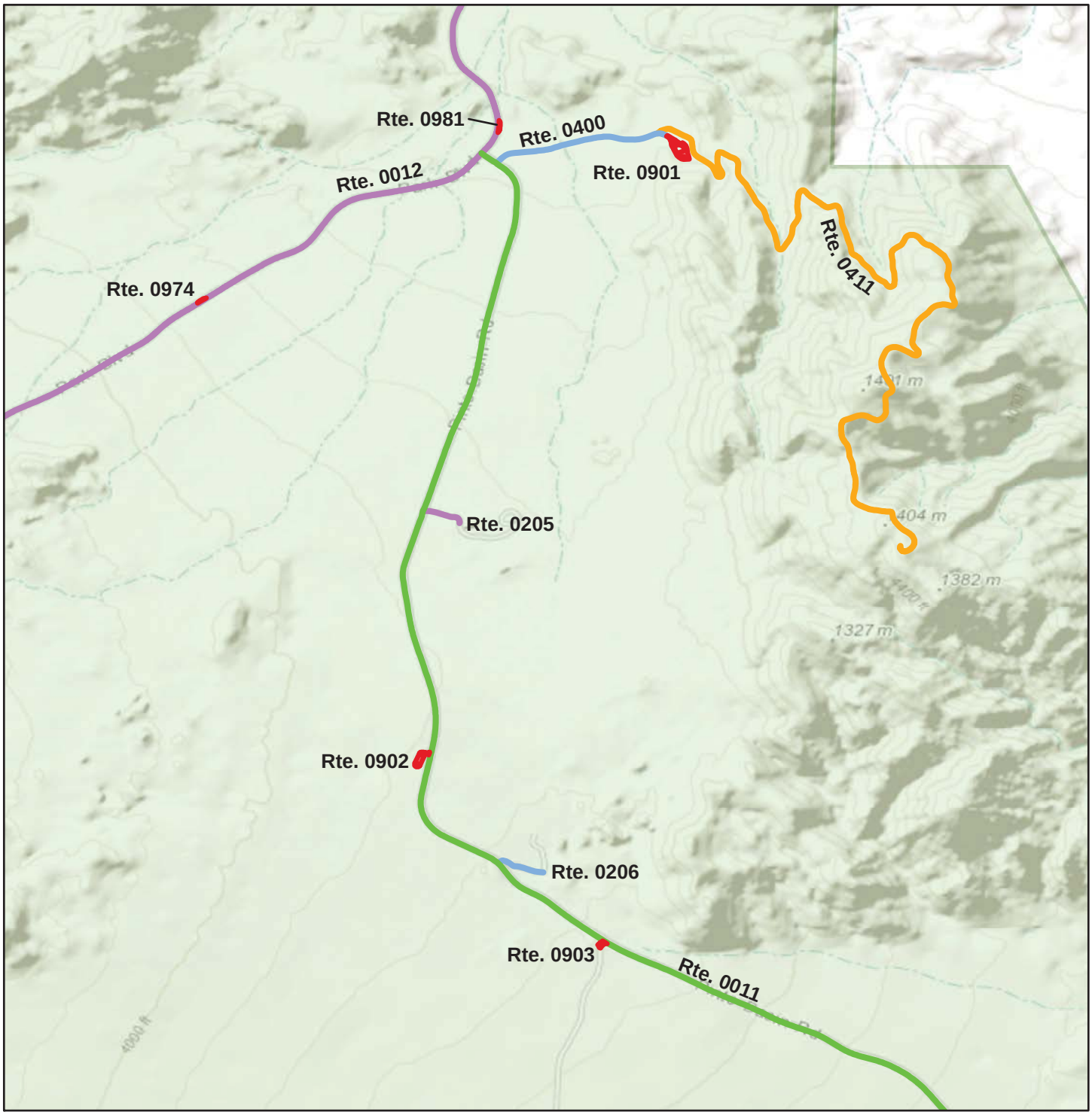
0 2.5 5

N

Joshua Tree National Park

ROUTE LOCATION MAP

Area Map 1C



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

Note: Unique colors are used to differentiate roads

Non-NPS Collected Routes

Miles

0 1 2

N

Joshua Tree National Park

ROUTE LOCATION MAP

Area Map 1D

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

Note: Unique colors are used to differentiate roads

Non-NPS Collected Routes

Miles

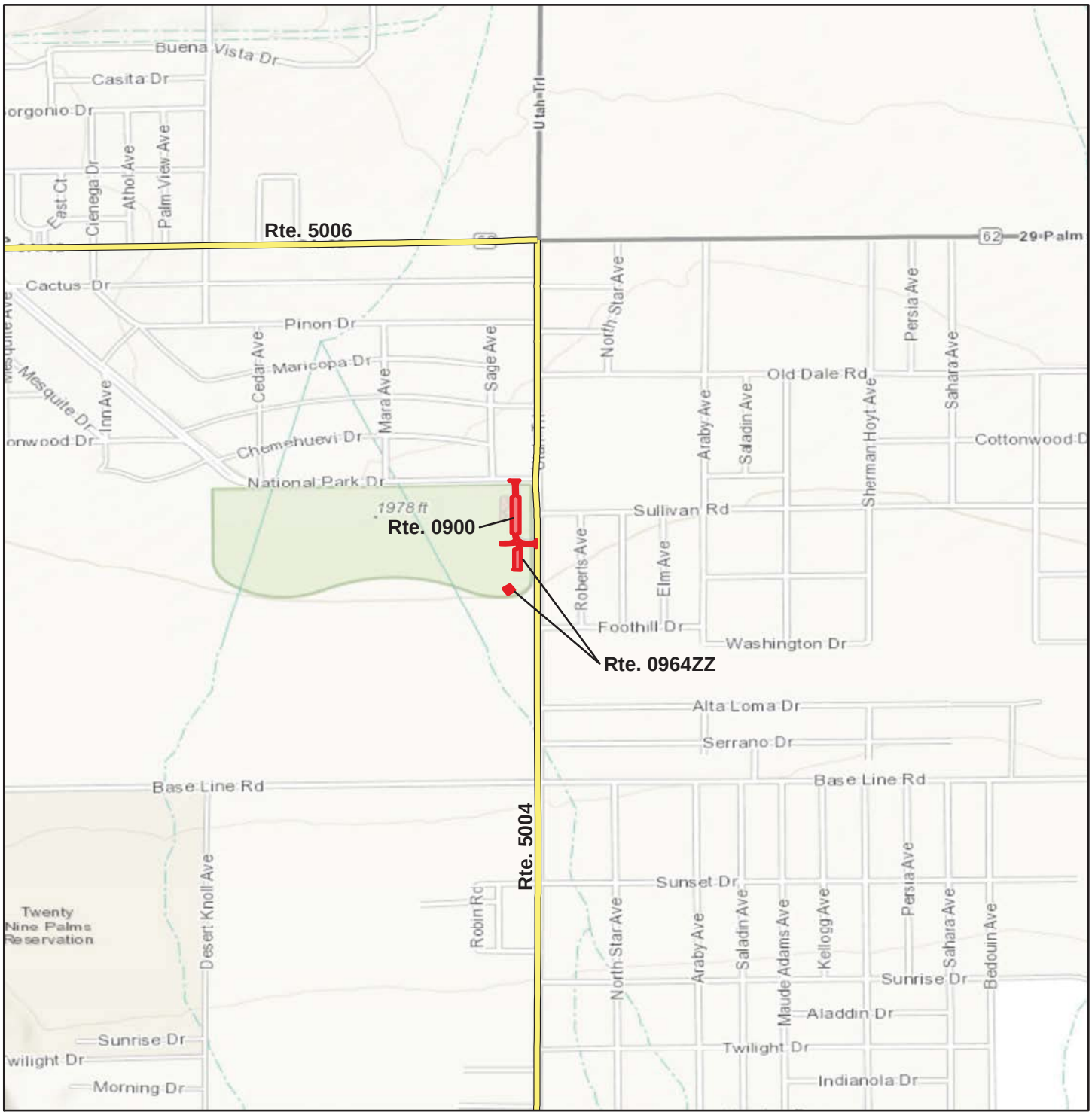
0 0.5 1

N

Joshua Tree National Park

ROUTE LOCATION MAP

Area Map 1E



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

Note: Unique colors are used to differentiate roads

Non-NPS Collected Routes

Miles

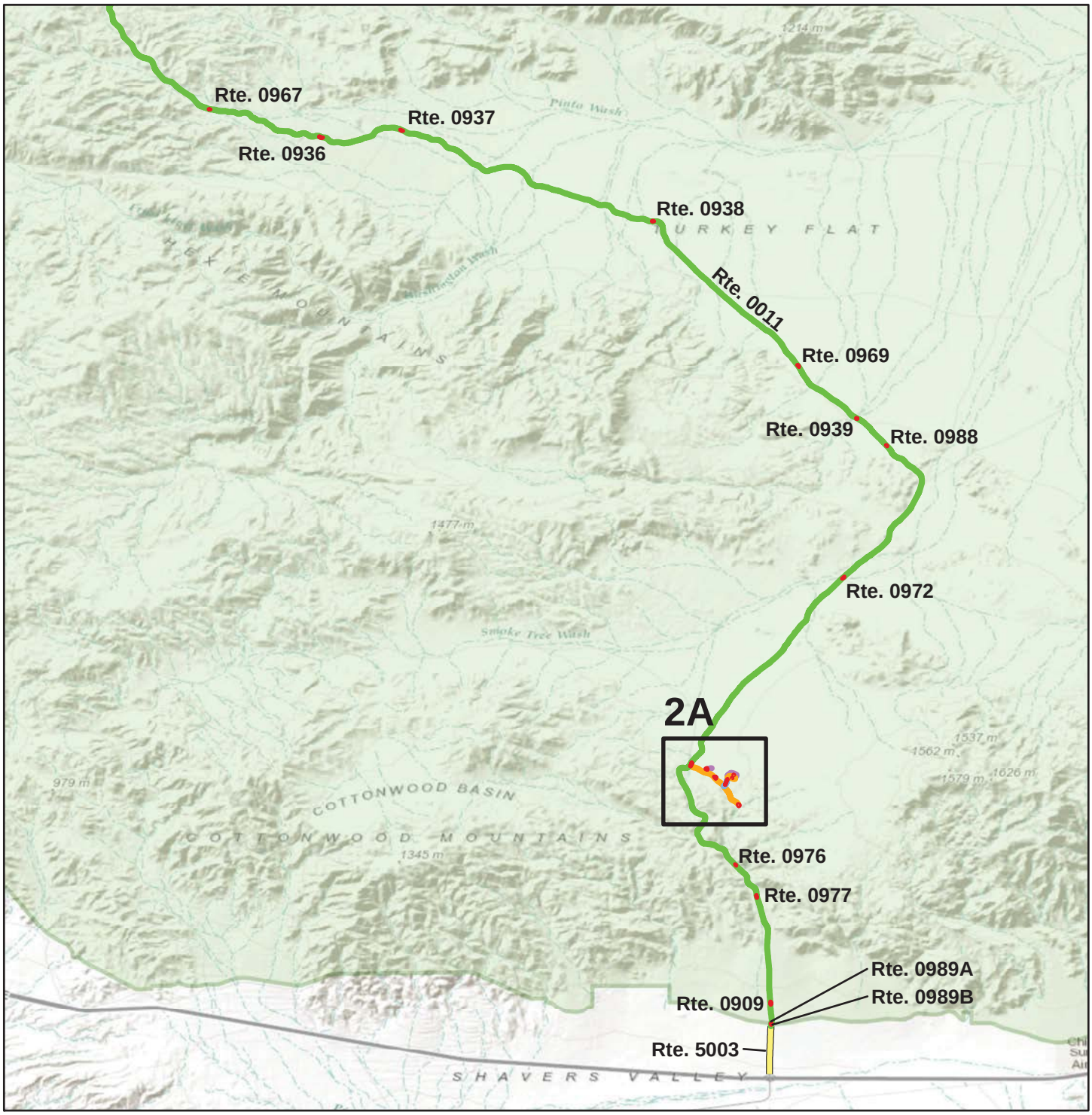
0 0.5 1

N

Joshua Tree National Park

ROUTE LOCATION MAP

Area Map 2



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

Note: Unique colors are used to differentiate roads

Non-NPS Collected Routes

Miles

0 5 10

N

Joshua Tree National Park

ROUTE LOCATION MAP
Area Map 2A

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

Note: Unique colors are used to differentiate roads

Non-NPS Collected Routes

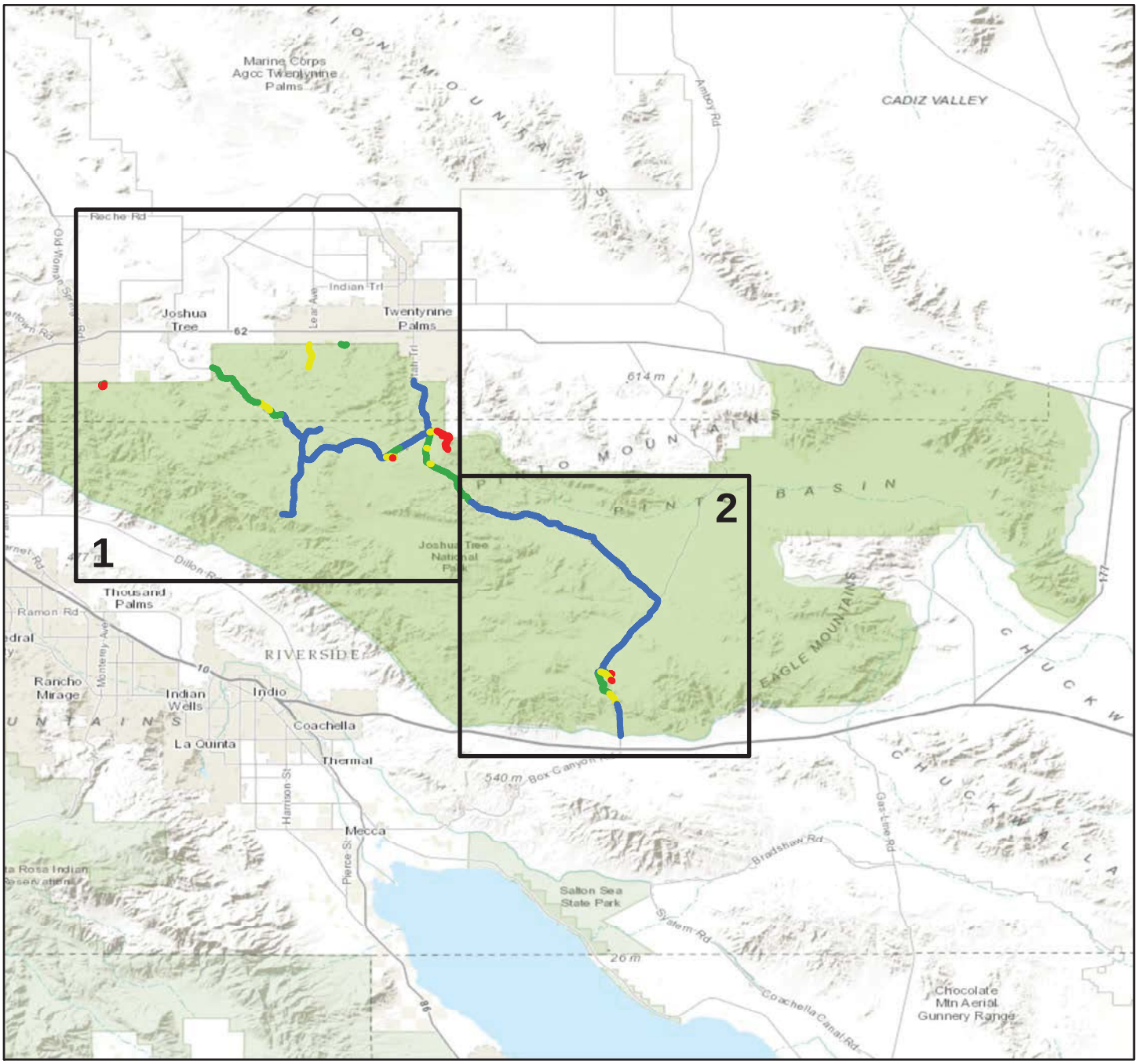
Miles

0 0.5 1

N

Joshua Tree National Park

ROUTE CONDITION MAP
PCR - MILE BY MILE
Key Map



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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

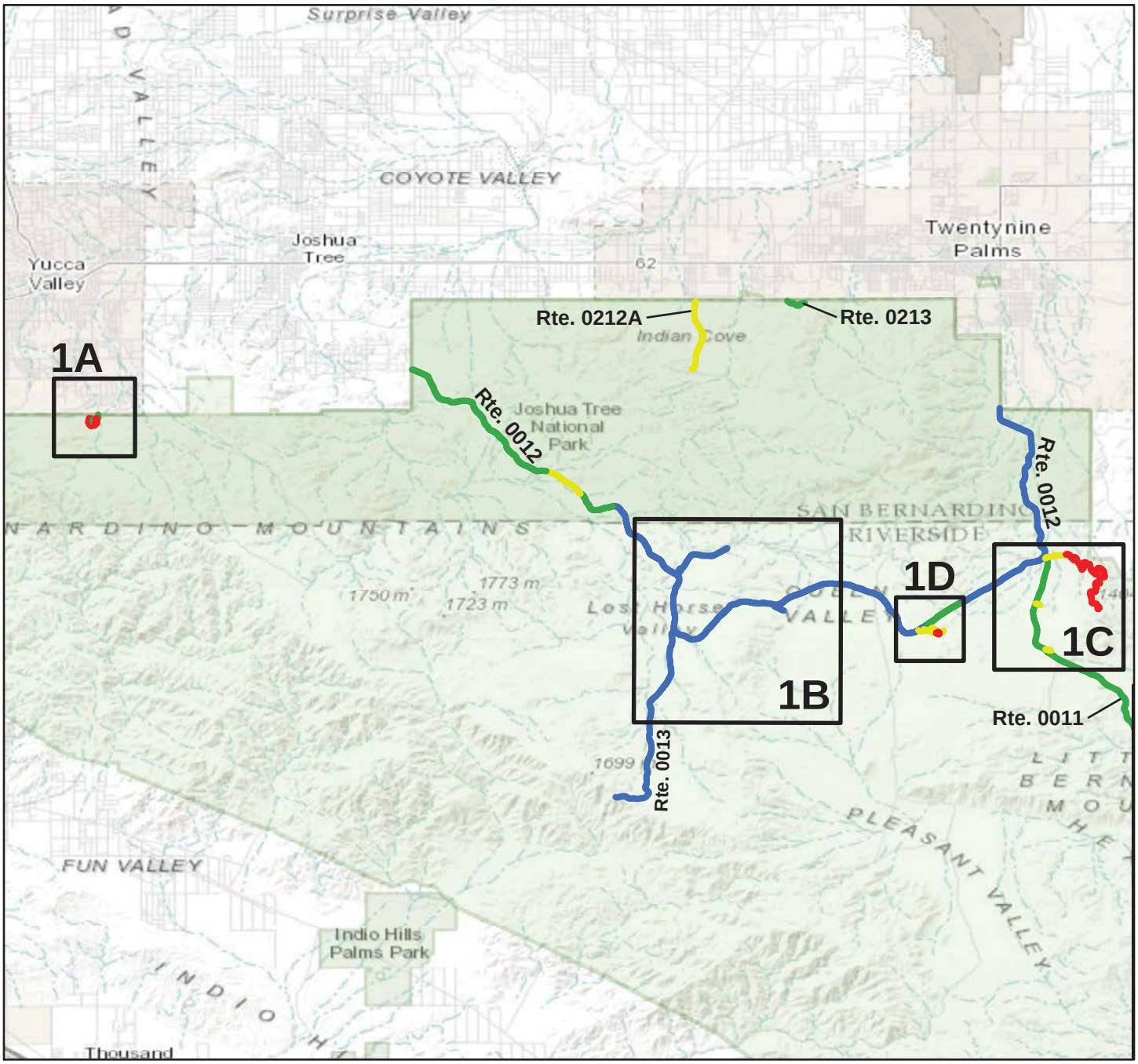
Miles

0 20 40

N

Joshua Tree National Park

ROUTE CONDITION MAP
PCR - MILE BY MILE
Area Map 1



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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

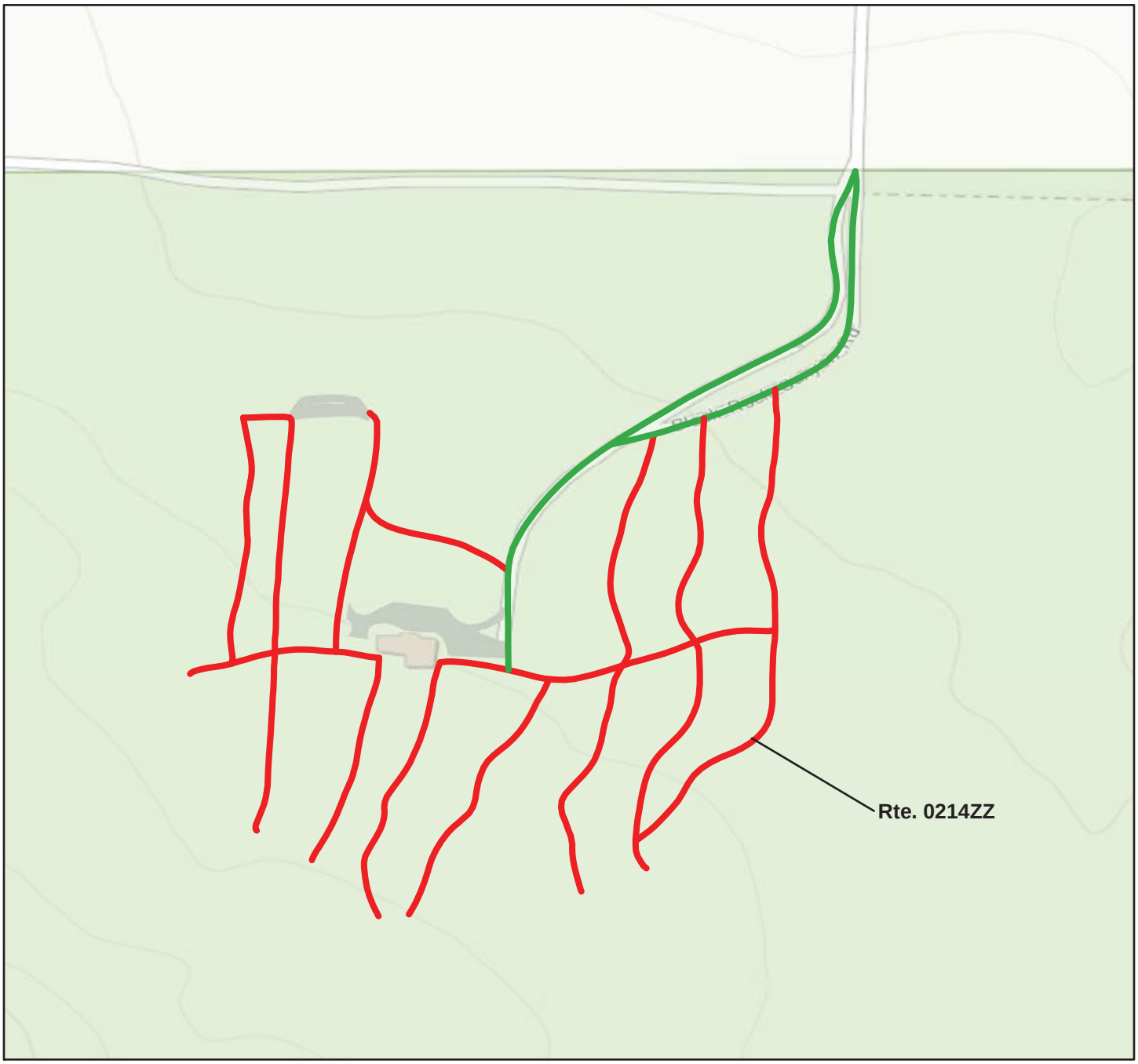
See Appendix for definitions and formulas
Only Data Collection Vehicle and Manually Rated Roads are displayed

Miles
0 5 10

N

Joshua Tree National Park

ROUTE CONDITION MAP
PCR - MILE BY MILE
Area Map 1A



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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 0.1 0.2

N

Joshua Tree National Park

ROUTE CONDITION MAP
PCR - MILE BY MILE
Area Map 1B

Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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

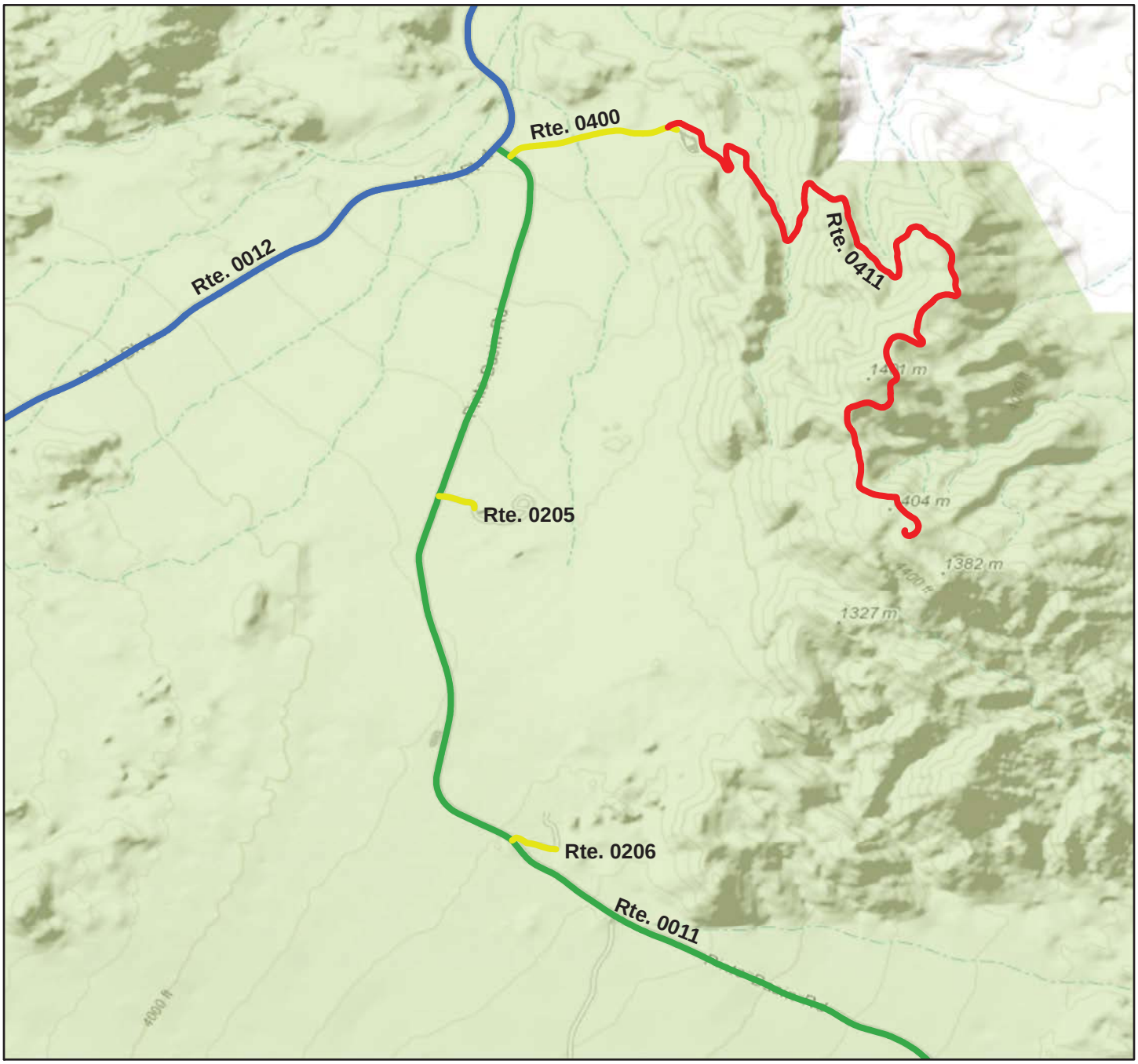
See Appendix for definitions and formulas
Only Data Collection Vehicle and Manually Rated Roads are displayed

Miles
0 2 4

N

Joshua Tree National Park

ROUTE CONDITION MAP
PCR - MILE BY MILE
Area Map 1C



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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 1 2

N

Joshua Tree National Park

ROUTE CONDITION MAP
PCR - MILE BY MILE
Area Map 1D

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

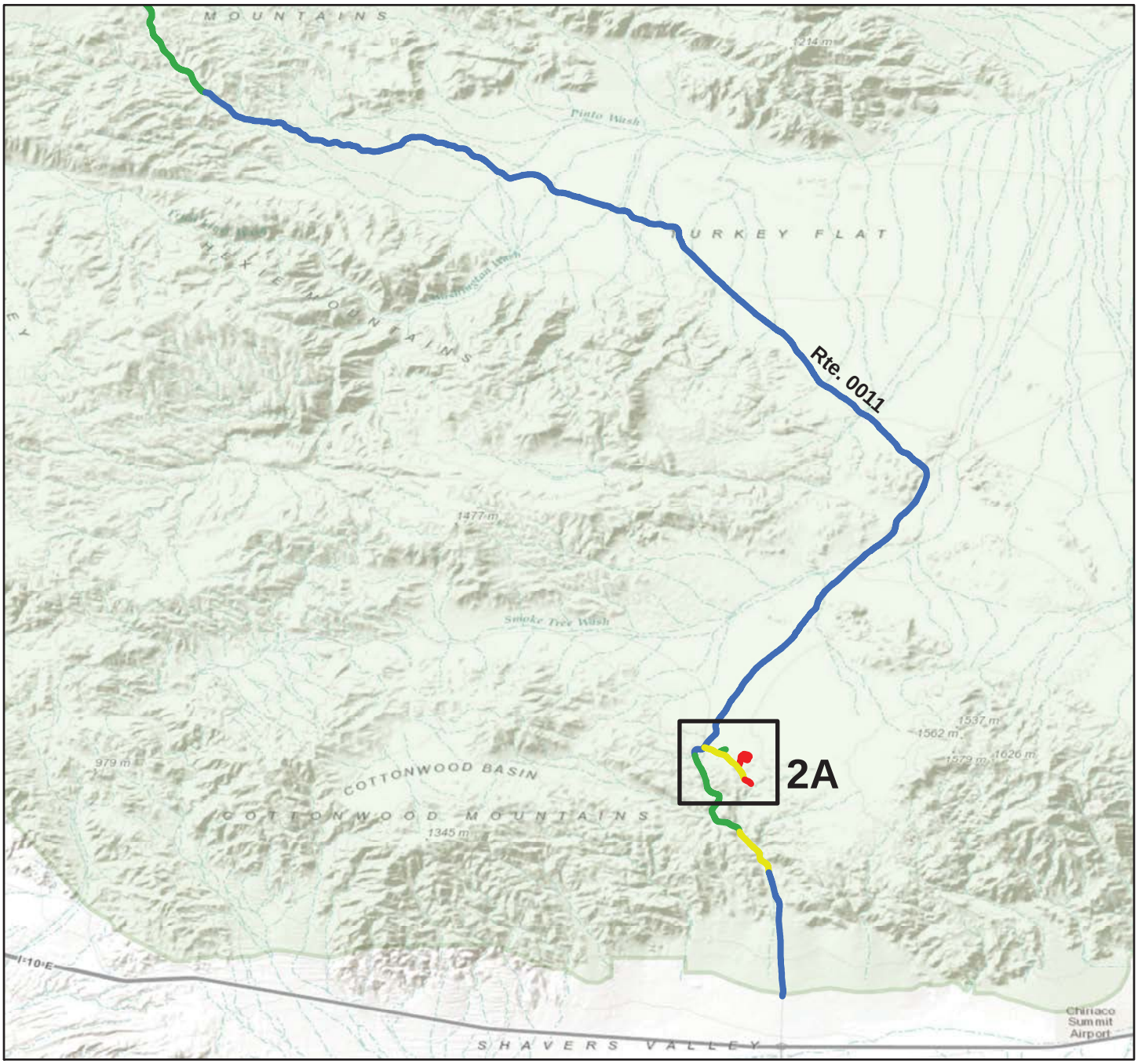
Miles

0 0.25 0.5

N

Joshua Tree National Park

ROUTE CONDITION MAP
PCR - MILE BY MILE
Area Map 2



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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

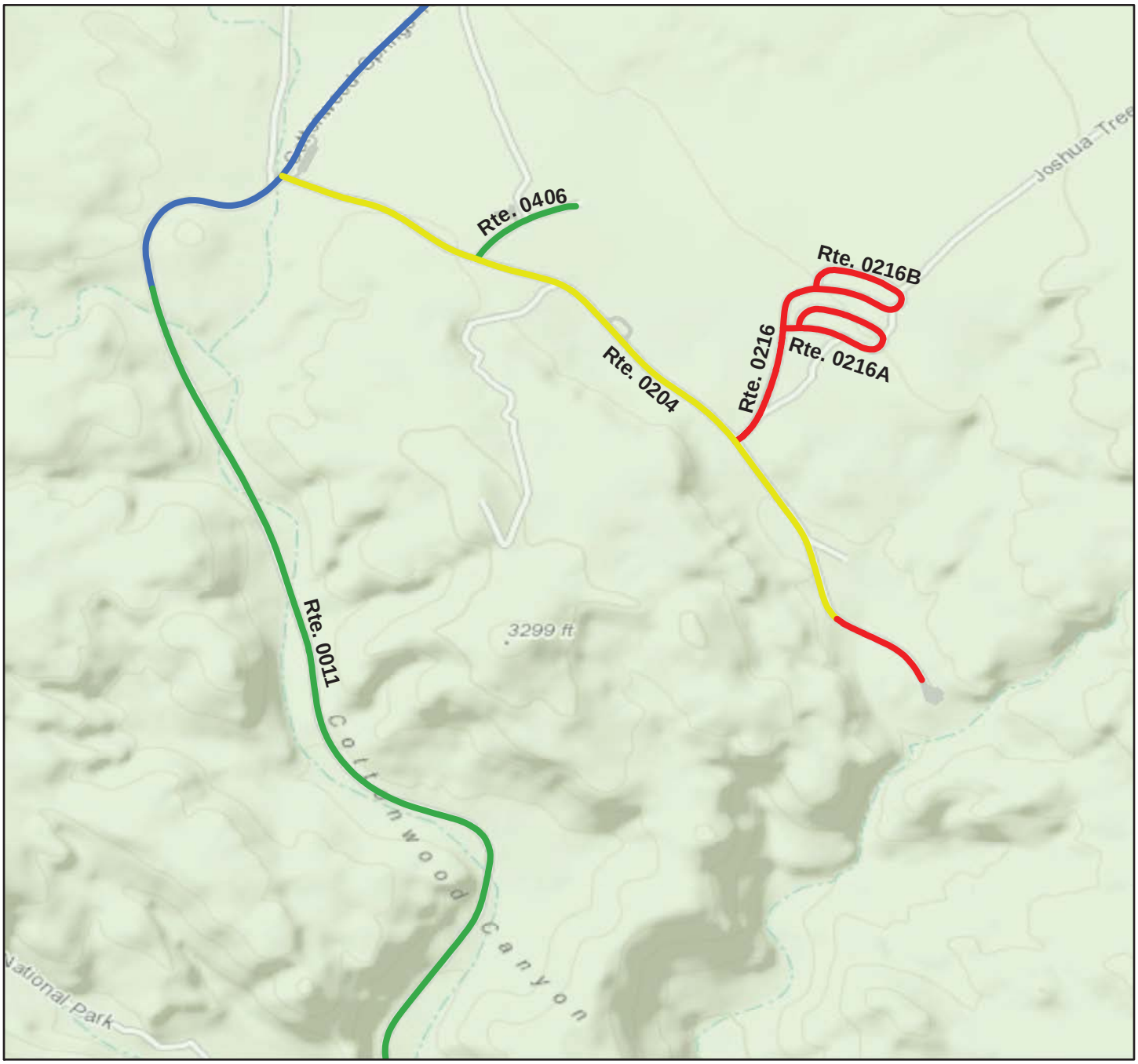
See Appendix for definitions and formulas
Only Data Collection Vehicle and Manually Rated Roads are displayed

Miles
0 5 10

N

Joshua Tree National Park

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



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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

Section 5
Paved Road Condition Rating Sheets

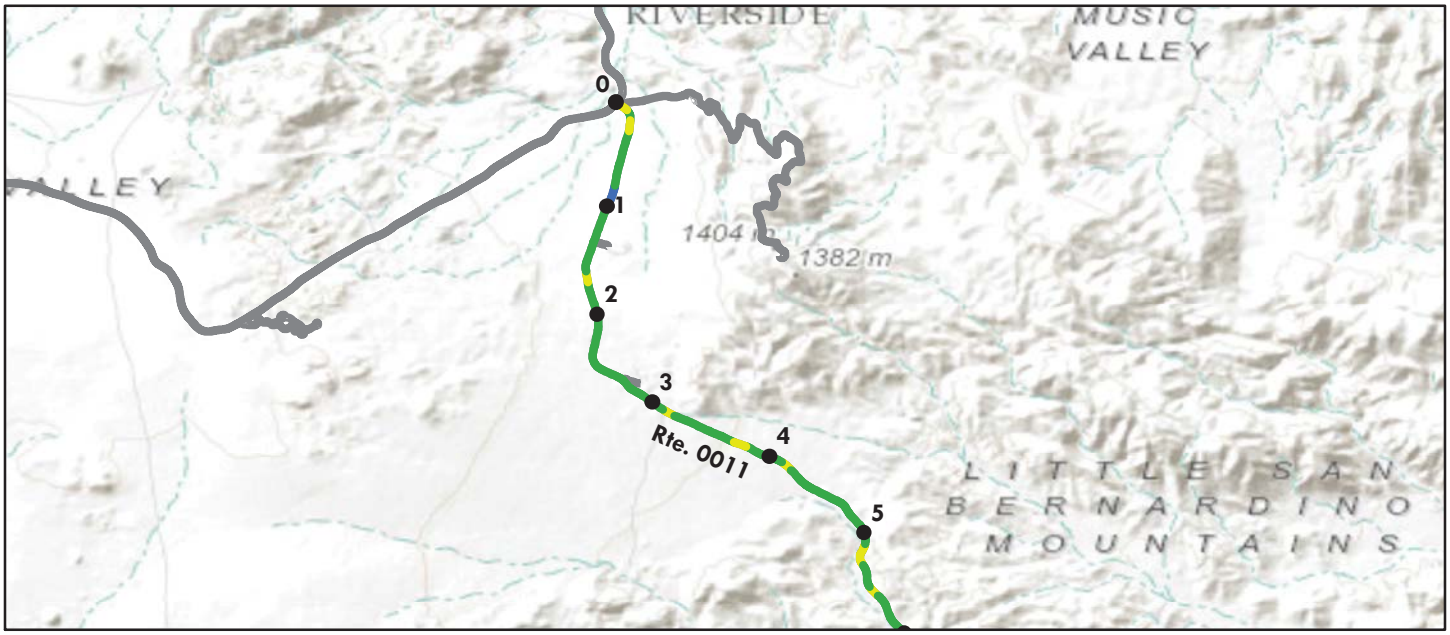
Joshua Tree National Park

Federal Lands Highway
Road Inventory Program

Joshua Tree National Park

ROUTE 0011: PINTO BASIN ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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

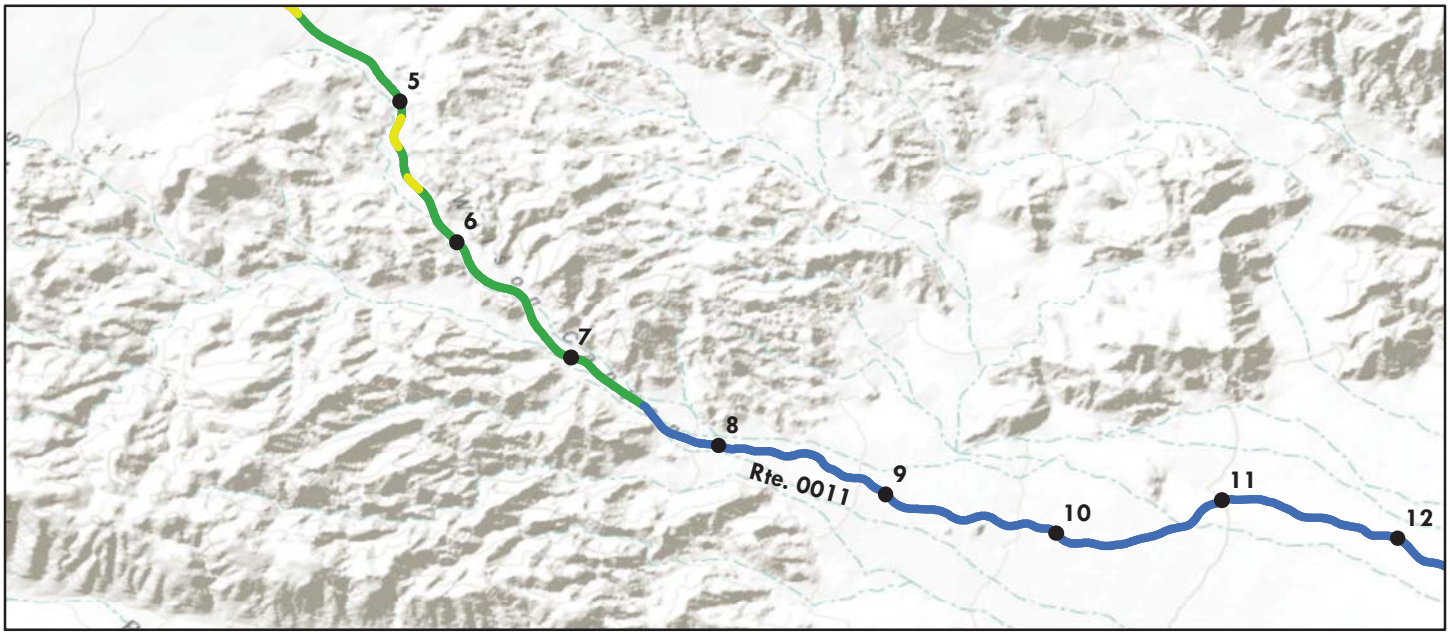
See Appendix for definitions and formulas

Inspection Date: 5/18/2015	**Beginning Section MP**	0	1	2	3	4
Paved Length (Miles): 35.54	**Section Length (MI)**	1	1	1	1	1
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	99	89	90	90	89	87
Surface Condition Rating (SCR)	98	92	92	93	95	94
Roughness Condition Index (RCI)	100	85	86	85	80	77
Distress Index Values						
Structural Crack Index	100	97	99	99	99	100
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	100	97	99	99	99	100
Transverse Cracking Index	98	92	92	93	95	94
Patching Index	100	100	100	100	100	100
Rutting Index	100	99	99	99	98	99
International Roughness Index (IRI)	97	155	151	155	169	180
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	21.6	20.4	19.8	21	20.5	20.6
Lane Width (ft)	9.4	9.2	8.6	9.4	9.2	9.2

Joshua Tree National Park

ROUTE 0011: PINTO BASIN ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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

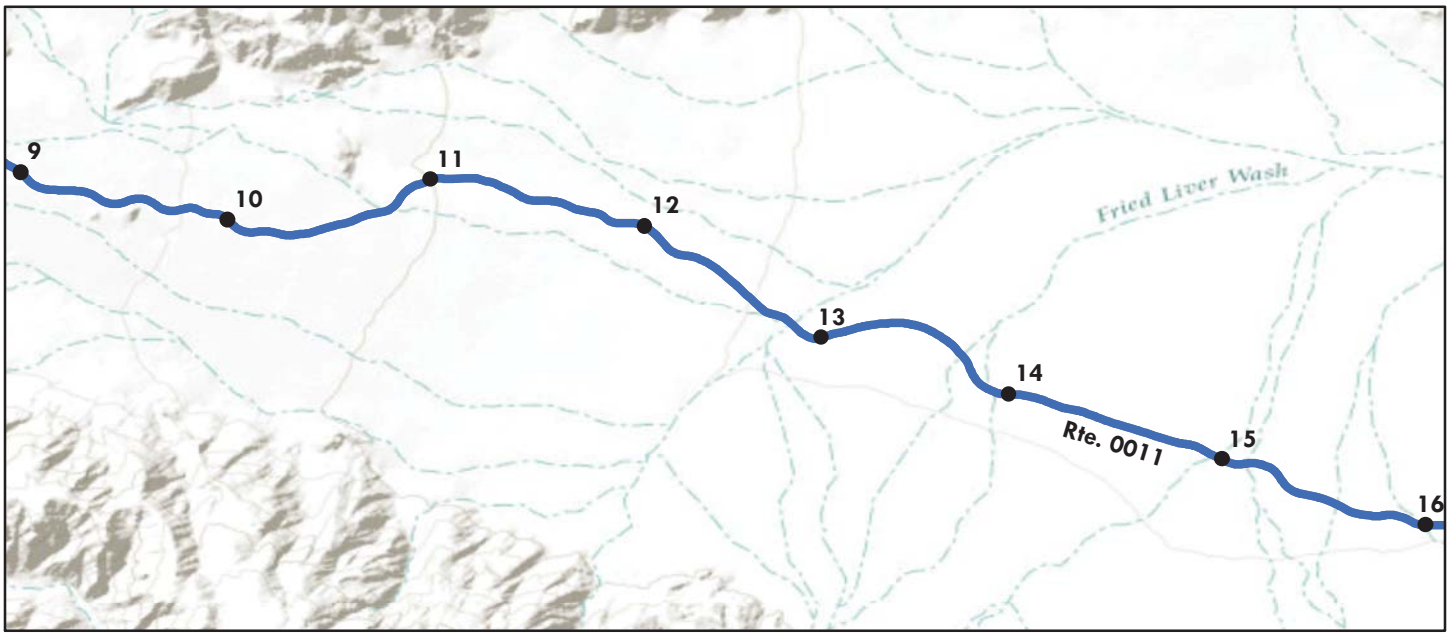
See Appendix for definitions and formulas

Inspection Date:	5/18/2015	**Beginning Section MP**	5	6	7	8	9
Paved Length (Miles):	35.54	**Section Length (MI)**	1	1	1	1	1
Surface Type:	ASPHALT	**Route Summary**					
Roadway Condition Information							
Pavement Condition Rating (PCR)		99	87	89	99	100	100
Surface Condition Rating (SCR)		98	93	92	98	100	100
Roughness Condition Index (RCI)		100	79	85	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	93	92	98	100	100
Patching Index		100	100	100	100	100	100
Rutting Index		100	99	98	99	100	100
International Roughness Index (IRI)		97	171	156	103	57	50
Lane & Width Information							
Number of Lanes		2	2	2	2	2	2
Paved Width (ft)		21.6	21.1	22	21.9	23.3	24
Lane Width (ft)		9.4	9.5	9.5	9.6	11	10.4

Joshua Tree National Park

ROUTE 0011: PINTO BASIN ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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

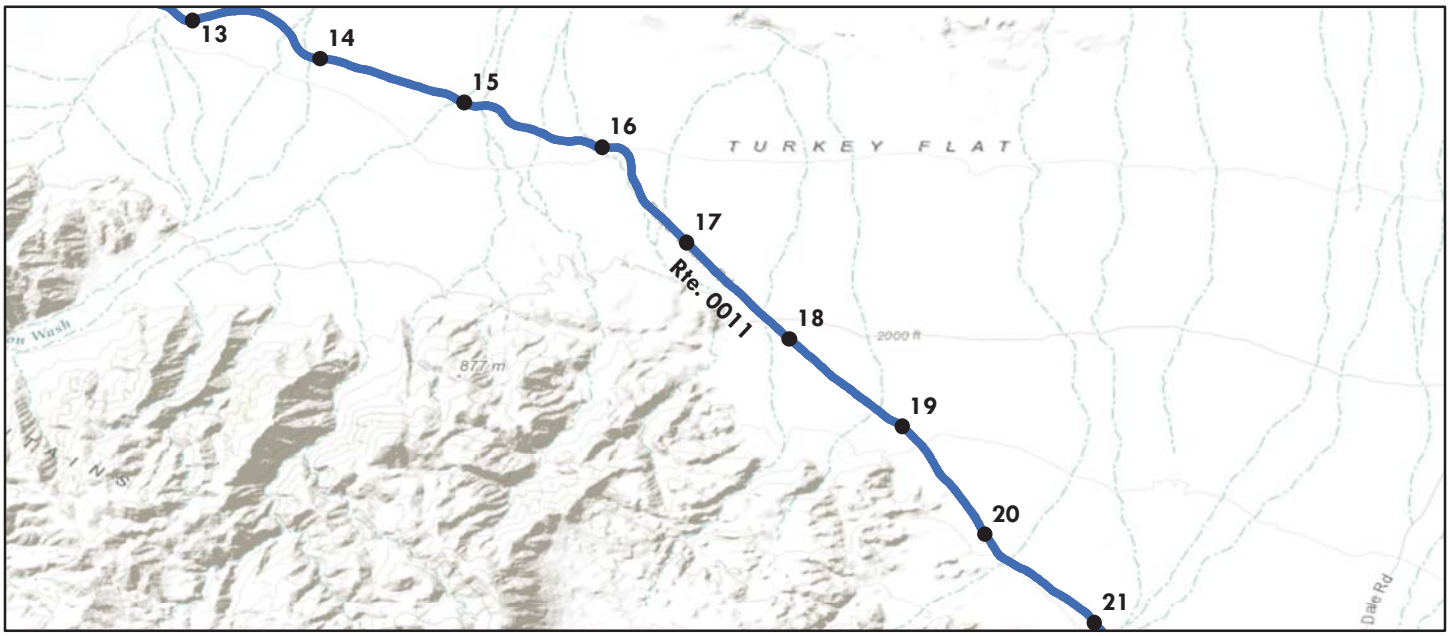
See Appendix for definitions and formulas

Inspection Date: 5/18/2015	**Beginning Section MP**	10	11	12	13	14
Paved Length (Miles): 35.54	**Section Length (MI)**	1	1	1	1	1
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	99	100	100	100	100	100
Surface Condition Rating (SCR)	98	100	100	100	100	100
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	98	100	100	100	100	100
Patching Index	100	100	100	100	100	100
Rutting Index	100	100	100	100	100	100
International Roughness Index (IRI)	97	66	56	49	49	52
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	21.6	21.7	22.6	22.3	22.4	21.6
Lane Width (ft)	9.4	9.7	10	9.4	9.6	9.7

Joshua Tree National Park

ROUTE 0011: PINTO BASIN ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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

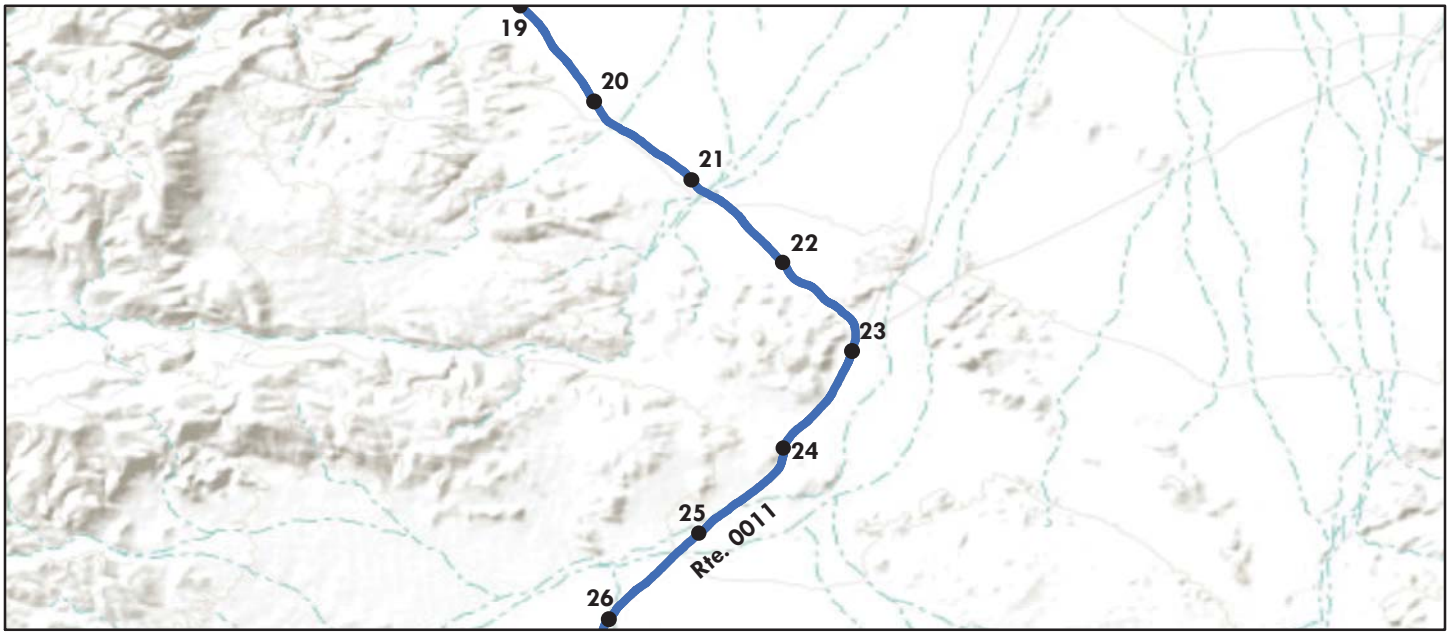
See Appendix for definitions and formulas

Inspection Date: 5/18/2015	**Beginning Section MP**	15	16	17	18	19
Paved Length (Miles): 35.54	**Section Length (MI)**	1	1	1	1	1
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	99	100	100	100	100	100
Surface Condition Rating (SCR)	98	100	100	100	100	100
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	98	100	100	100	100	100
Patching Index	100	100	100	100	100	100
Rutting Index	100	100	100	100	100	100
International Roughness Index (IRI)	97	49	47	48	53	55
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	21.6	21.9	21.9	20.3	20.8	21.3
Lane Width (ft)	9.4	9.9	10.2	8.7	8.5	8.6

Joshua Tree National Park

ROUTE 0011: PINTO BASIN ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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

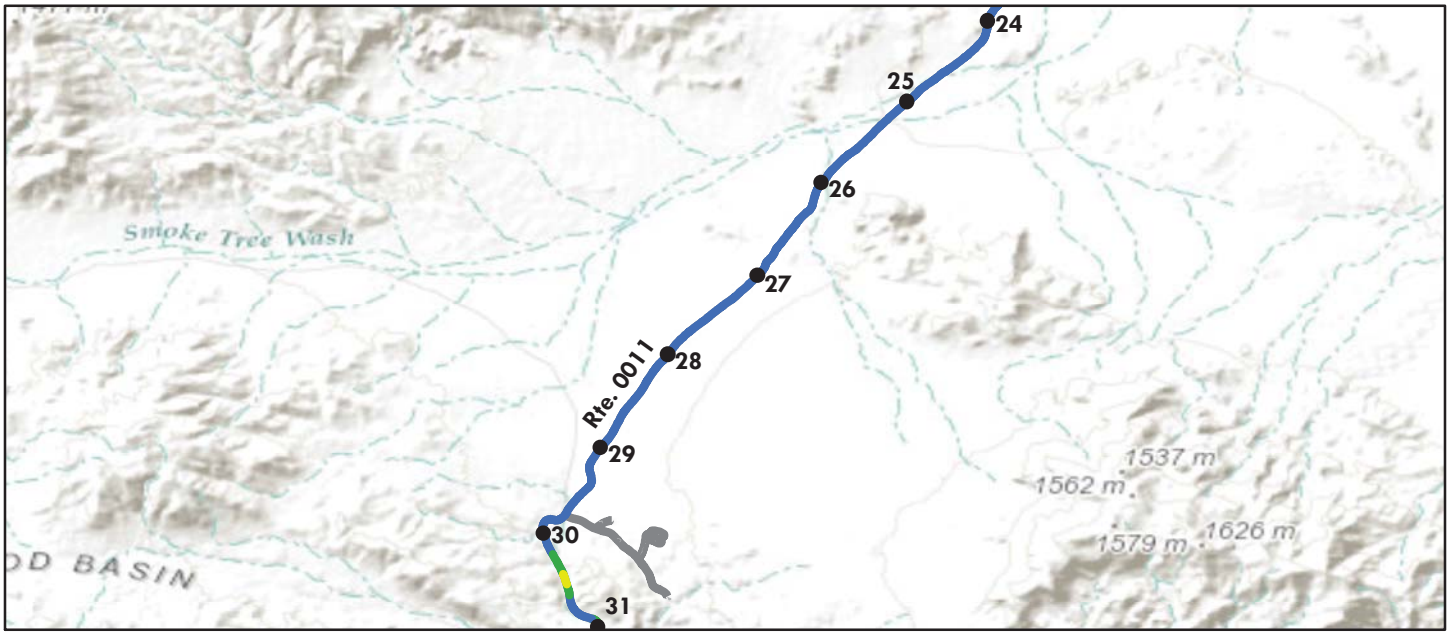
See Appendix for definitions and formulas

Inspection Date: 5/18/2015	**Beginning Section MP**	20	21	22	23	24
Paved Length (Miles): 35.54	**Section Length (MI)**	1	1	1	1	1
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	99	100	100	100	100	100
Surface Condition Rating (SCR)	98	100	100	100	100	100
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	98	100	100	100	100	100
Patching Index	100	100	100	100	100	100
Rutting Index	100	100	100	100	100	100
International Roughness Index (IRI)	97	76	76	85	66	85
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	21.6	21.3	20.5	22.7	21.8	21.8
Lane Width (ft)	9.4	9.2	9	9.8	8.9	9

Joshua Tree National Park

ROUTE 0011: PINTO BASIN ROAD

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

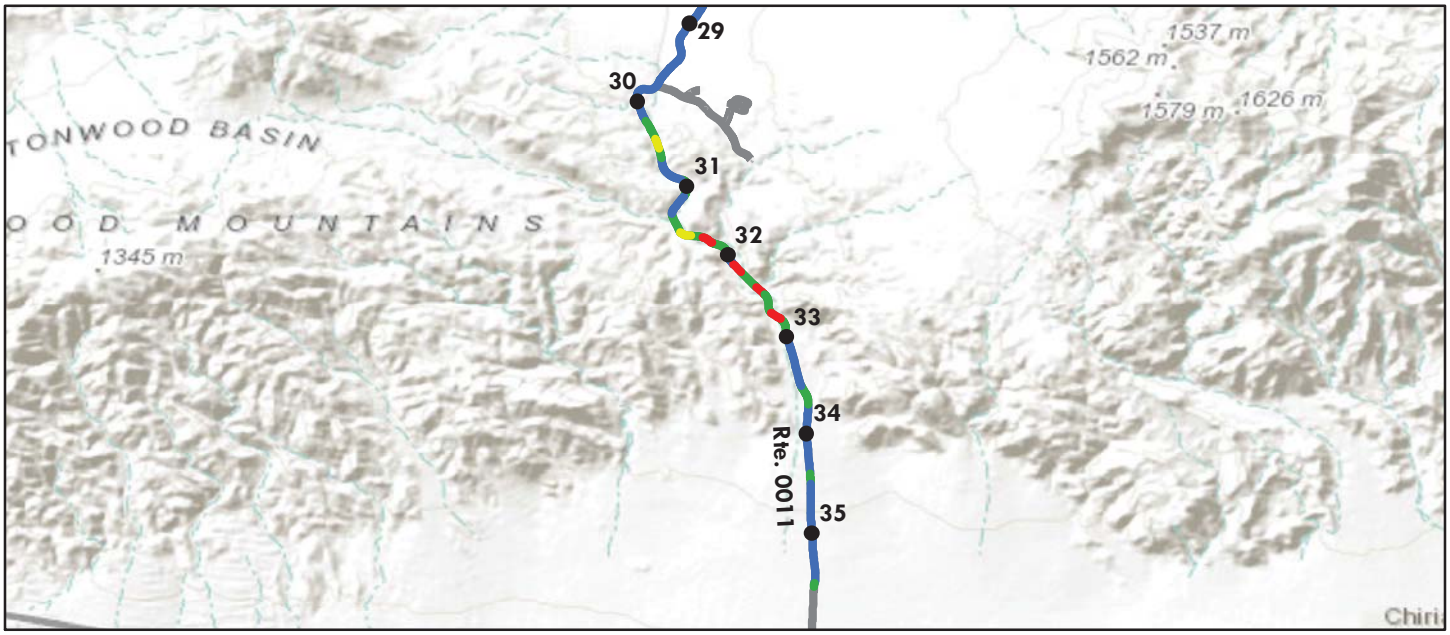
See Appendix for definitions and formulas

Inspection Date: 5/18/2015	**Beginning Section MP**	25	26	27	28	29
Paved Length (Miles): 35.54	**Section Length (MI)**	1	1	1	1	1
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	99	100	100	100	100	100
Surface Condition Rating (SCR)	98	100	100	100	100	100
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	98	100	100	100	100	100
Patching Index	100	100	100	100	100	100
Rutting Index	100	100	100	100	100	100
International Roughness Index (IRI)	97	80	80	71	72	90
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	21.6	21.3	21.4	22	21.4	22.3
Lane Width (ft)	9.4	9.1	8.7	9	9.1	9.3

Joshua Tree National Park

ROUTE 0011: PINTO BASIN ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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

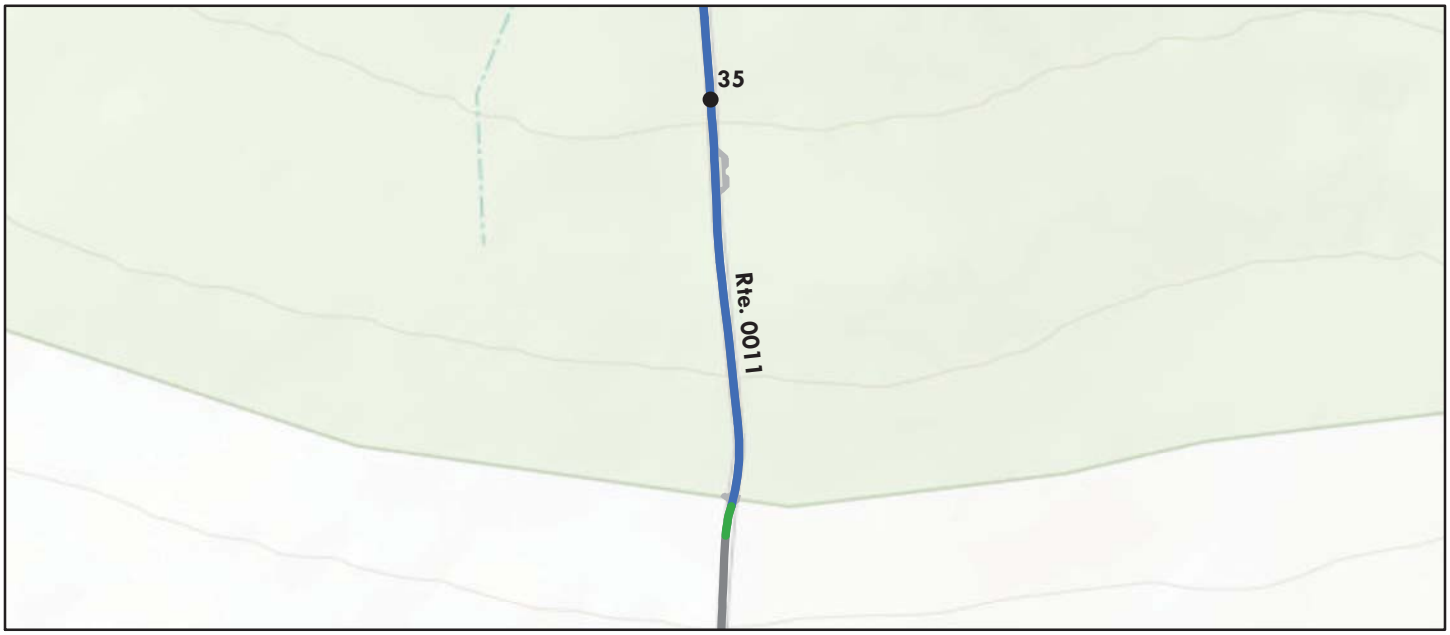
See Appendix for definitions and formulas

Inspection Date: 5/18/2015	**Beginning Section MP**	30	31	32	33	34
Paved Length (Miles): 35.54	**Section Length (MI)**	1	1	1	1	1
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	99	93	89	84	98	98
Surface Condition Rating (SCR)	98	95	96	94	96	96
Roughness Condition Index (RCI)	100	91	79	68	100	100
Distress Index Values						
Structural Crack Index	100	100	99	99	100	100
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	100	100	99	99	100	100
Transverse Cracking Index	98	95	96	94	96	96
Patching Index	100	100	100	100	100	100
Rutting Index	100	100	99	99	100	99
International Roughness Index (IRI)	97	137	174	208	110	108
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	21.6	21.9	22.8	22.8	20.6	20.5
Lane Width (ft)	9.4	9.3	9.5	9.5	9.5	9.4

Joshua Tree National Park

ROUTE 0011: PINTO BASIN ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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

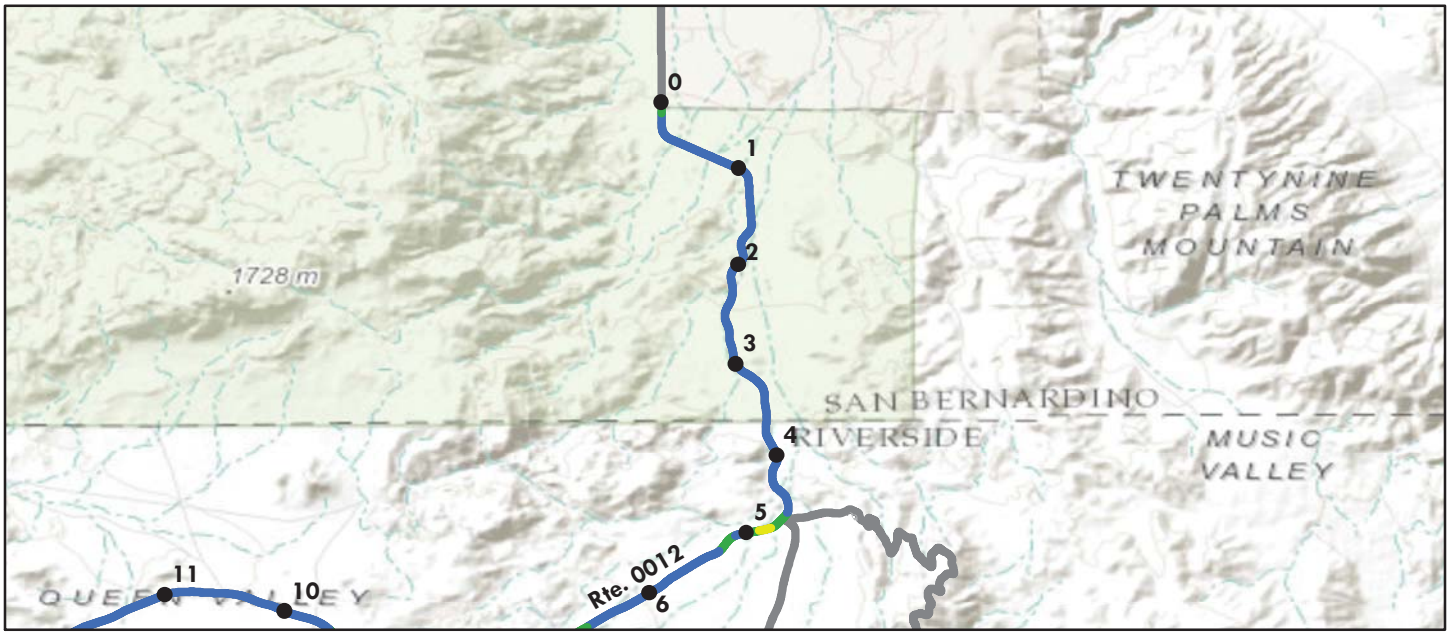
See Appendix for definitions and formulas

Inspection Date: 5/18/2015	**Beginning Section MP**	35				
Paved Length (Miles): 35.54	**Section Length (MI)**	0.54				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	99	98				
Surface Condition Rating (SCR)	98	97				
Roughness Condition Index (RCI)	100	100				
Distress Index Values						
Structural Crack Index	100	100				
Alligator Crack Index	100	100				
Longitudinal Crack Index	100	100				
Transverse Cracking Index	98	97				
Patching Index	100	100				
Rutting Index	100	100				
International Roughness Index (IRI)	97	116				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	21.6	21				
Lane Width (ft)	9.4	9.2				

Joshua Tree National Park

ROUTE 0012: EAST-WEST HIGHWAY

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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

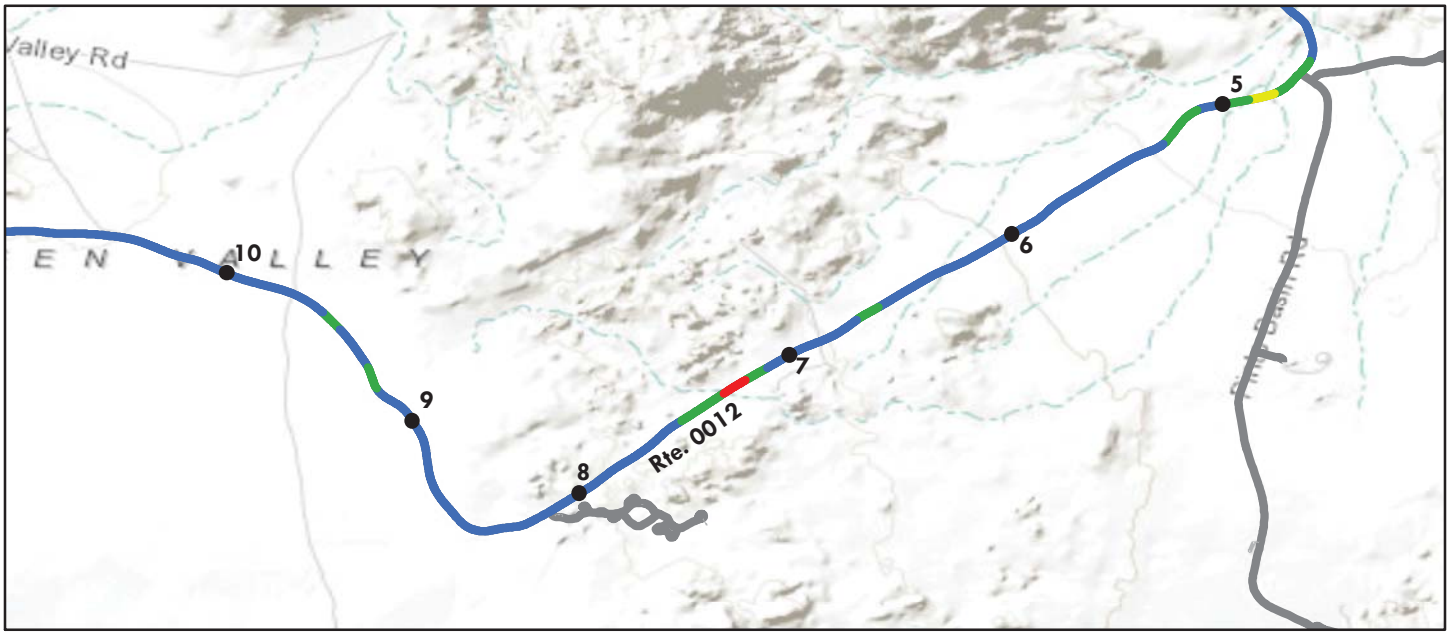
See Appendix for definitions and formulas

Inspection Date: 5/18/2015	**Beginning Section MP**	0	1	2	3	4
Paved Length (Miles): 25.46	**Section Length (MI)**	1	1	1	1	1
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	97	99	99	100	100	97
Surface Condition Rating (SCR)	95	98	99	100	100	99
Roughness Condition Index (RCI)	100	100	100	100	100	93
Distress Index Values						
Structural Crack Index	98	100	100	100	100	100
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	98	100	100	100	100	100
Transverse Cracking Index	95	98	99	100	100	99
Patching Index	100	100	100	100	100	100
Rutting Index	99	100	100	100	100	99
International Roughness Index (IRI)	111	86	66	61	66	131
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	25.5	27.1	26.5	25.7	25.6	28.2
Lane Width (ft)	10.9	11.3	10.8	10.7	10.6	11.5

Joshua Tree National Park

ROUTE 0012: EAST-WEST HIGHWAY

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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

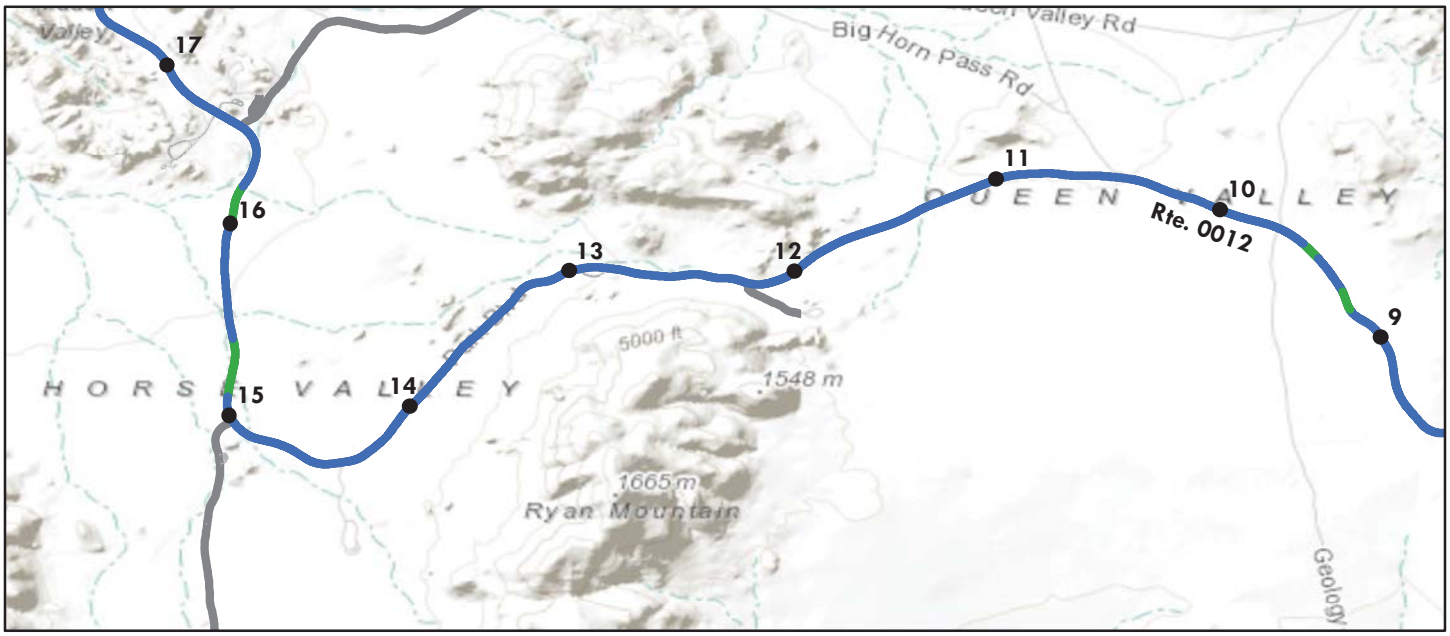
See Appendix for definitions and formulas

Inspection Date: 5/18/2015	**Beginning Section MP**	5	6	7	8	9
Paved Length (Miles): 25.46	**Section Length (MI)**	1	1	1	1	1
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	97	97	98	94	99	99
Surface Condition Rating (SCR)	95	97	96	96	99	98
Roughness Condition Index (RCI)	100	97	100	90	100	100
Distress Index Values						
Structural Crack Index	98	99	100	99	100	99
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	98	99	100	99	100	99
Transverse Cracking Index	95	97	96	96	99	98
Patching Index	100	100	100	100	100	100
Rutting Index	99	99	99	99	99	99
International Roughness Index (IRI)	111	122	110	141	109	104
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	25.5	25.7	25.5	28.7	27.6	25.8
Lane Width (ft)	10.9	10.6	11.2	10.6	10.7	10.5

Joshua Tree National Park

ROUTE 0012: EAST-WEST HIGHWAY

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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

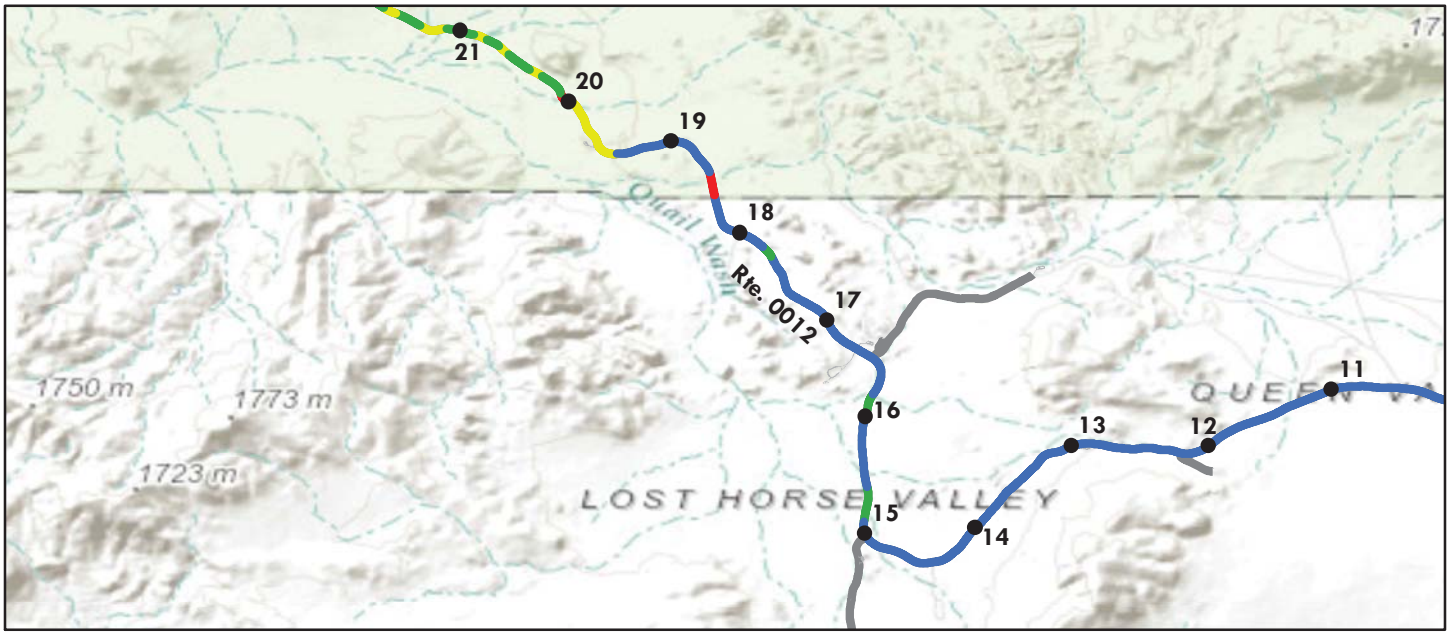
See Appendix for definitions and formulas

Inspection Date: 5/18/2015	**Beginning Section MP**	10	11	12	13	14
Paved Length (Miles): 25.46	**Section Length (MI)**	1	1	1	1	1
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	97	100	100	100	99	100
Surface Condition Rating (SCR)	95	100	100	100	99	100
Roughness Condition Index (RCI)	100	100	100	100	100	100
Distress Index Values						
Structural Crack Index	98	100	100	100	100	100
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	98	100	100	100	100	100
Transverse Cracking Index	95	100	100	100	100	100
Patching Index	100	100	100	100	100	100
Rutting Index	99	100	100	100	99	100
International Roughness Index (IRI)	111	92	80	78	81	81
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	25.5	24.1	23.9	23.7	24.3	24.3
Lane Width (ft)	10.9	10.5	10.6	10.8	10.9	11

Joshua Tree National Park

ROUTE 0012: EAST-WEST HIGHWAY

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

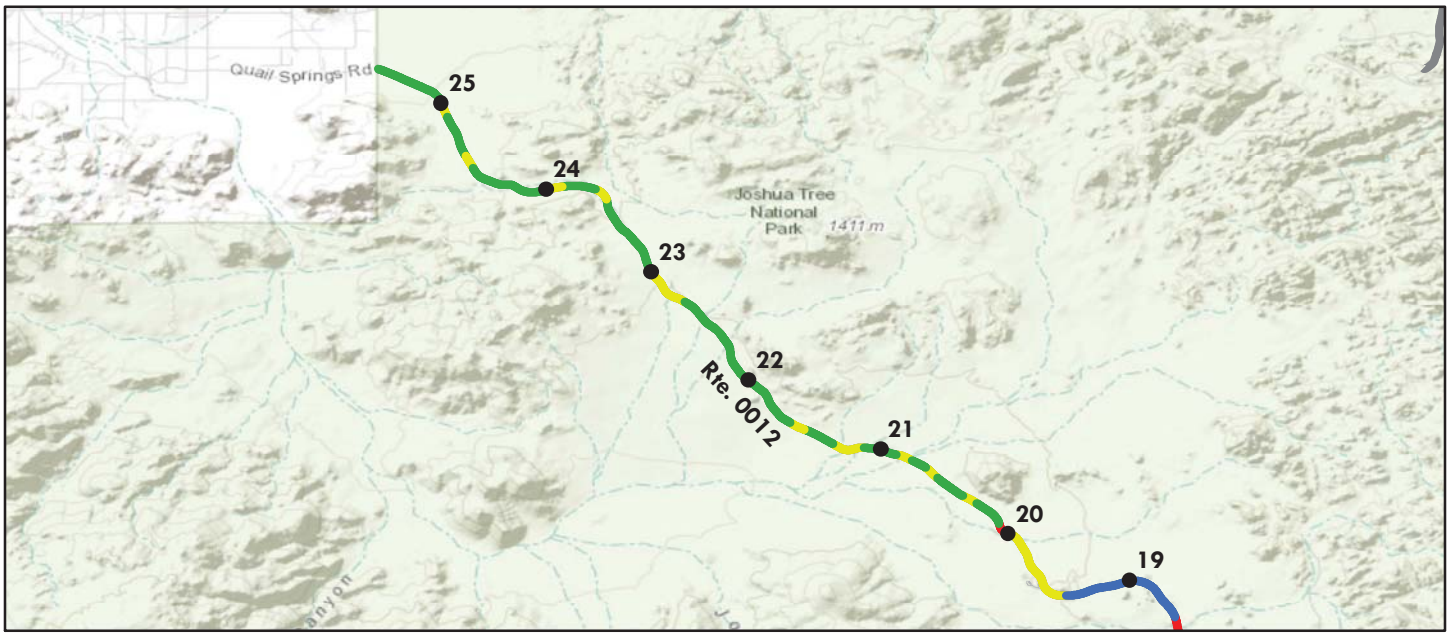
See Appendix for definitions and formulas

Inspection Date: 5/18/2015	**Beginning Section MP**	15	16	17	18	19
Paved Length (Miles): 25.46	**Section Length (MI)**	1	1	1	1	1
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	97	96	98	98	95	89
Surface Condition Rating (SCR)	95	99	98	96	97	87
Roughness Condition Index (RCI)	100	91	99	100	93	91
Distress Index Values						
Structural Crack Index	98	100	100	100	100	94
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	98	100	100	100	100	94
Transverse Cracking Index	95	100	98	100	100	87
Patching Index	100	100	100	100	100	100
Rutting Index	99	99	99	96	97	98
International Roughness Index (IRI)	111	138	116	104	132	136
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	25.5	25.1	25.5	23.8	25.5	24.5
Lane Width (ft)	10.9	11	11.2	10.8	10.8	10.8

Joshua Tree National Park

ROUTE 0012: EAST-WEST HIGHWAY

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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: 5/18/2015	**Beginning Section MP**	20	21	22	23	24
Paved Length (Miles): 25.46	**Section Length (MI)**	1	1	1	1	1
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	97	82	86	87	88	87
Surface Condition Rating (SCR)	95	76	84	86	86	87
Roughness Condition Index (RCI)	100	90	89	88	90	87
Distress Index Values						
Structural Crack Index	98	84	91	94	96	94
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	98	84	91	94	96	94
Transverse Cracking Index	95	76	84	86	86	87
Patching Index	100	100	100	100	100	100
Rutting Index	99	98	98	99	99	98
International Roughness Index (IRI)	111	140	143	147	141	150
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	25.5	24.7	26.1	25.7	25.2	26.2
Lane Width (ft)	10.9	10.8	11.2	10.9	10.7	11

Joshua Tree National Park

ROUTE 0012: EAST-WEST HIGHWAY

Data Collection Vehicle (DCV) Rating

Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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

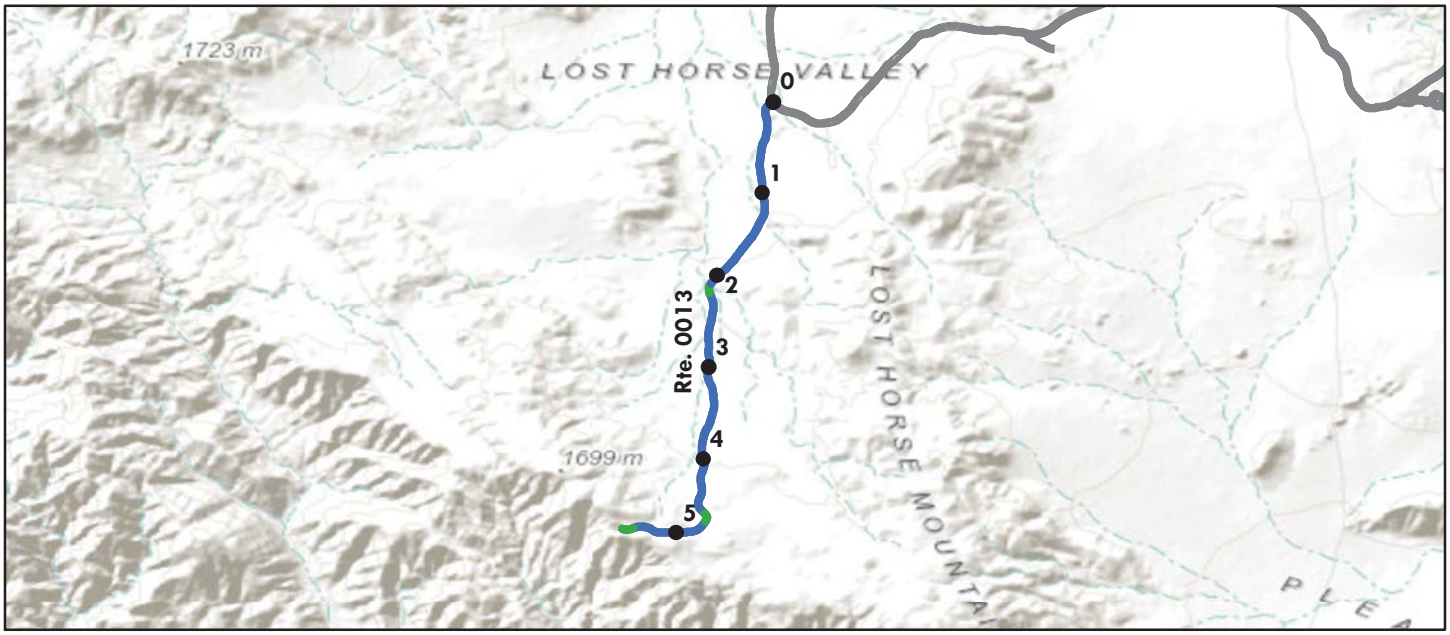
See Appendix for definitions and formulas

Inspection Date:	5/18/2015	**Beginning Section MP**	25				
Paved Length (Miles):	25.46	**Section Length (MI)**	0.46				
Surface Type:	ASPHALT	**Route Summary**					
Roadway Condition Information							
Pavement Condition Rating (PCR)		97	91				
Surface Condition Rating (SCR)		95	89				
Roughness Condition Index (RCI)		100	93				
Distress Index Values							
Structural Crack Index		98	96				
Alligator Crack Index		100	100				
Longitudinal Crack Index		98	96				
Transverse Cracking Index		95	89				
Patching Index		100	100				
Rutting Index		99	98				
International Roughness Index (IRI)		111	132				
Lane & Width Information							
Number of Lanes		2	2				
Paved Width (ft)		25.5	25.4				
Lane Width (ft)		10.9	11.1				

Joshua Tree National Park

ROUTE 0013: KEY'S VIEW ROAD

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: 5/18/2015	**Beginning Section MP**	0	1	2	3	4
Paved Length (Miles): 5.5	**Section Length (MI)**	1	1	1	1	1
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	99	99	100	99	99	99
Surface Condition Rating (SCR)	99	99	100	98	99	98
Roughness Condition Index (RCI)	100	100	100	100	100	100
Distress Index Values						
Structural Crack Index	99	100	100	98	99	99
Alligator Crack Index	100	100	100	100	100	100
Longitudinal Crack Index	99	100	100	98	99	99
Transverse Cracking Index	99	99	100	99	99	99
Patching Index	100	100	100	100	100	100
Rutting Index	100	100	100	100	100	98
International Roughness Index (IRI)	89	85	79	82	88	99
Lane & Width Information						
Number of Lanes	2	2	2	2	2	2
Paved Width (ft)	21.9	21.9	21.3	21.5	21.8	22.2
Lane Width (ft)	9.5	9.7	9.3	9.3	9.6	9.5

Joshua Tree National Park

ROUTE 0013: KEY'S VIEW ROAD

Data Collection Vehicle (DCV) Rating

Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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:	5/18/2015	**Beginning Section MP**	5				
Paved Length (Miles):	5.5	**Section Length (MI)**	0.5				
Surface Type:	ASPHALT	**Route Summary**					
Roadway Condition Information							
Pavement Condition Rating (PCR)		99	98				
Surface Condition Rating (SCR)		99	97				
Roughness Condition Index (RCI)		100	100				
Distress Index Values							
Structural Crack Index		99	100				
Alligator Crack Index		100	100				
Longitudinal Crack Index		99	100				
Transverse Cracking Index		99	97				
Patching Index		100	100				
Rutting Index		100	99				
International Roughness Index (IRI)		89	108				
Lane & Width Information							
Number of Lanes		2	2				
Paved Width (ft)		21.9	23.2				
Lane Width (ft)		9.5	9.4				

Joshua Tree National Park

ROUTE 0101: BARKER DAM ROAD

Data Collection Vehicle (DCV) Rating

Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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

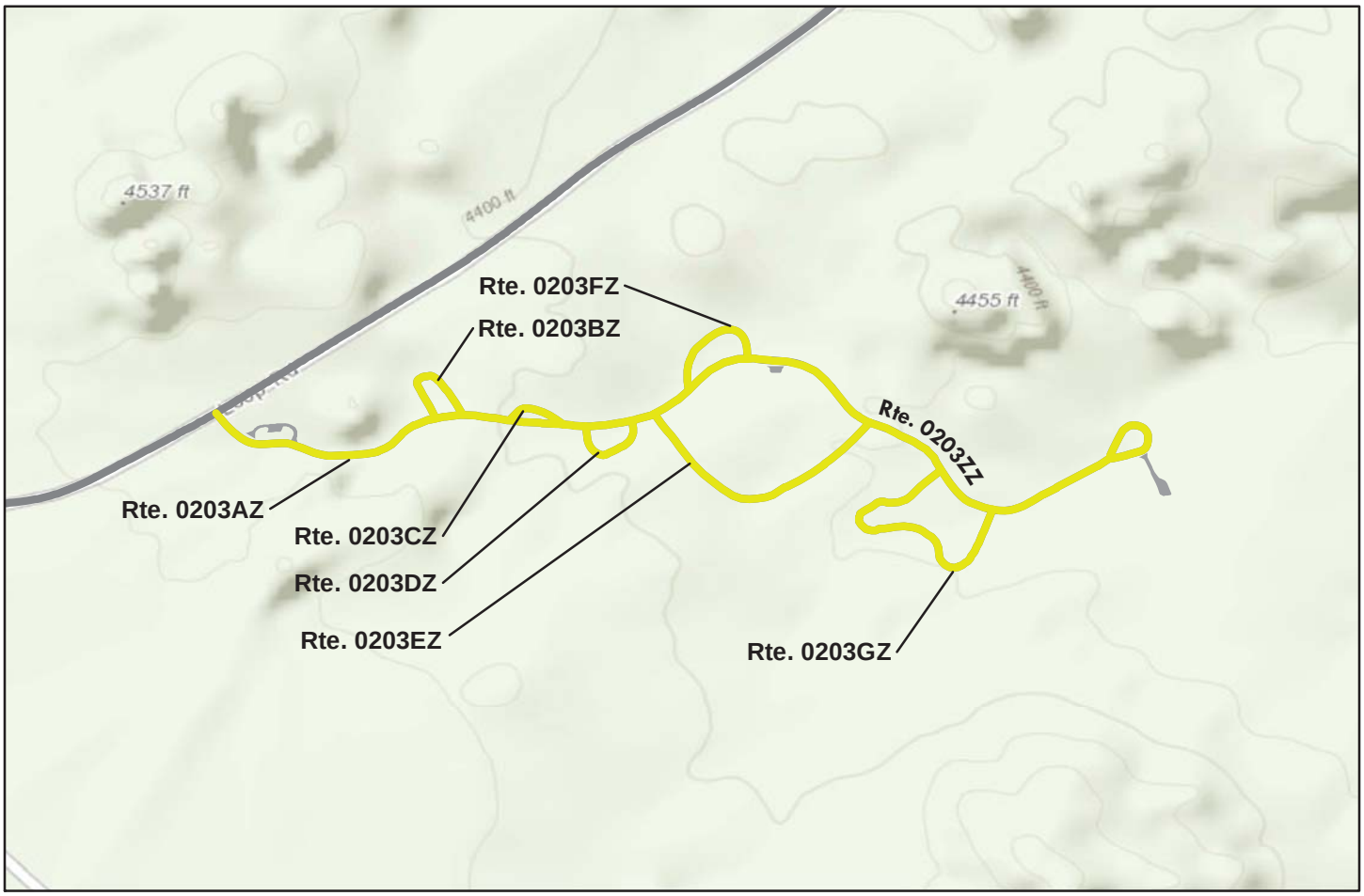
See Appendix for definitions and formulas

Inspection Date: 5/18/2015	**Beginning Section MP**	0	1			
Paved Length (Miles): 1.51	**Section Length (MI)**	1	0.51			
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	98	99	95			
Surface Condition Rating (SCR)	99	99	99			
Roughness Condition Index (RCI)	97	100	88			
Distress Index Values						
Structural Crack Index	100	100	100			
Alligator Crack Index	100	100	100			
Longitudinal Crack Index	100	100	100			
Transverse Cracking Index	100	100	100			
Patching Index	100	100	100			
Rutting Index	99	99	99			
International Roughness Index (IRI)	122	108	147			
Lane & Width Information						
Number of Lanes	2	2	2			
Paved Width (ft)	22.4	22	23.3			
Lane Width (ft)	9.7	9.8	9.4			

Joshua Tree National Park

ROUTE 0203ZZ: JUMBO ROCKS CAMPGROUND

Summary Route



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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:	5/18/2015
Paved Length (Miles):	1.32
Surface Type:	ASPHALT
Roadway Condition Information	
Pavement Condition Rating (PCR)	64
Lane & Width Information	
Number of Lanes	2
Paved Width (ft)	15.7
Lane Width (ft)	11

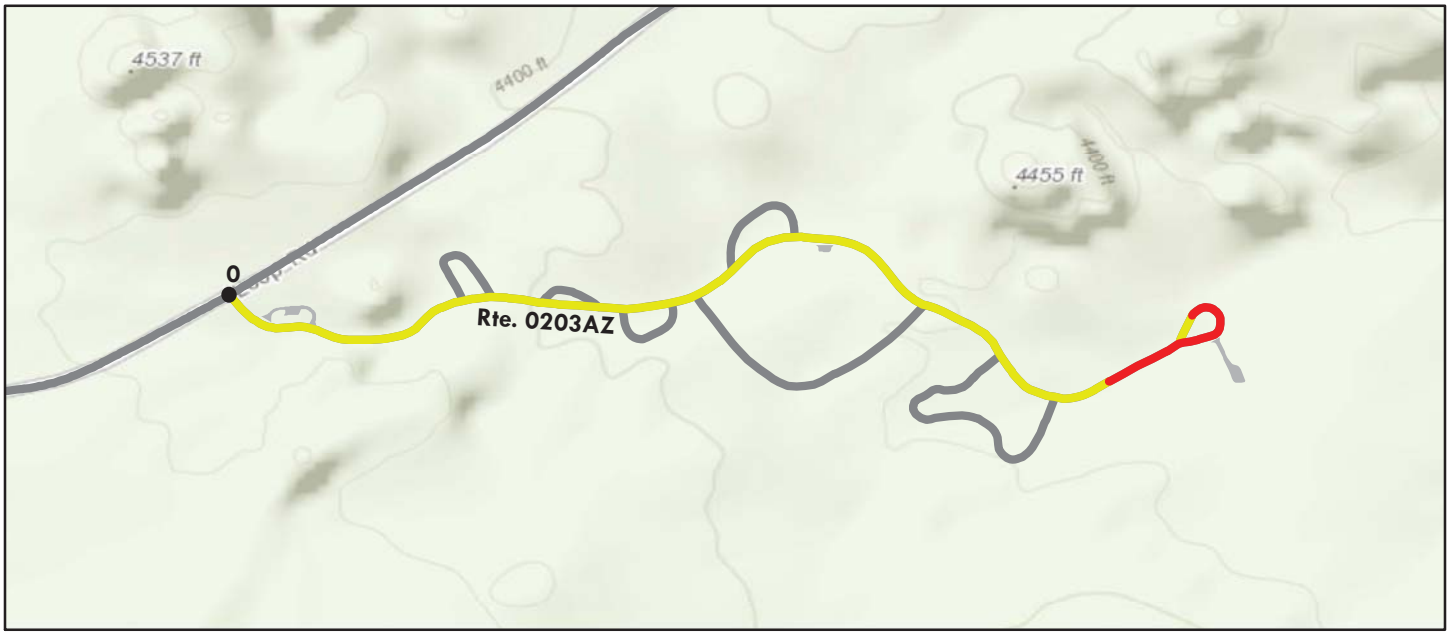
Route Summary

Joshua Tree National Park

ROUTE 0203AZ: JUMBO ROCKS CAMPGROUND LOOP A

Subcomponent of Route JOTR-0203ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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

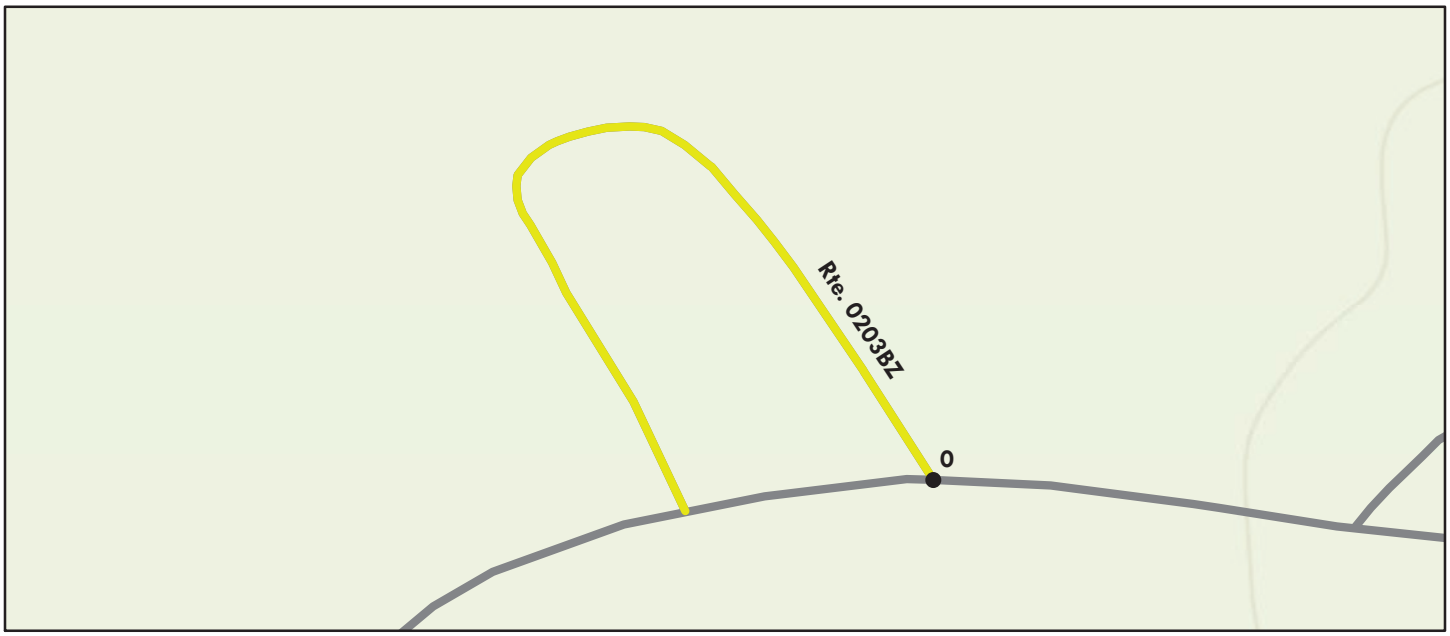
Inspection Date: 5/18/2015	**Beginning Section MP**	0				
Paved Length (Miles): 0.72	**Section Length (MI)**	0.72				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	65	65				
Surface Condition Rating (SCR)	65	65				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	86	86				
Alligator Crack Index	100	100				
Longitudinal Crack Index	86	86				
Transverse Cracking Index	65	65				
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)	18.4	18.4				
Lane Width (ft)	9.8	9.8				

Joshua Tree National Park

ROUTE 0203BZ: JUMBO ROCKS CAMPGROUND LOOP B

Subcomponent of Route JOTR-0203ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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

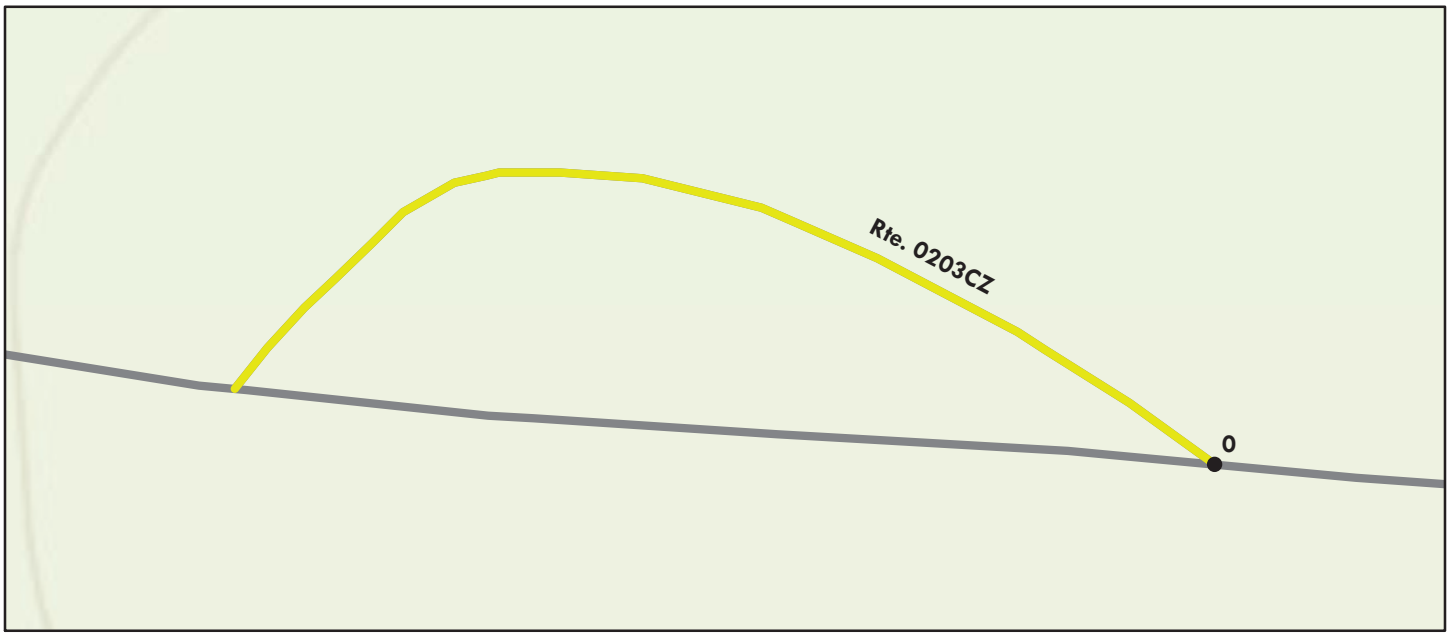
Inspection Date: 5/18/2015	**Beginning Section MP**	0				
Paved Length (Miles): 0.07	**Section Length (MI)**	0.07				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	71	71				
Surface Condition Rating (SCR)	71	71				
Roughness Condition 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	71	71				
Patching Index	100	100				
Rutting Index	95	95				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	13.4	13.4				
Lane Width (ft)	13.4	13.4				

Joshua Tree National Park

ROUTE 0203CZ: JUMBO ROCKS CAMPGROUND LOOP C

Subcomponent of Route JOTR-0203ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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

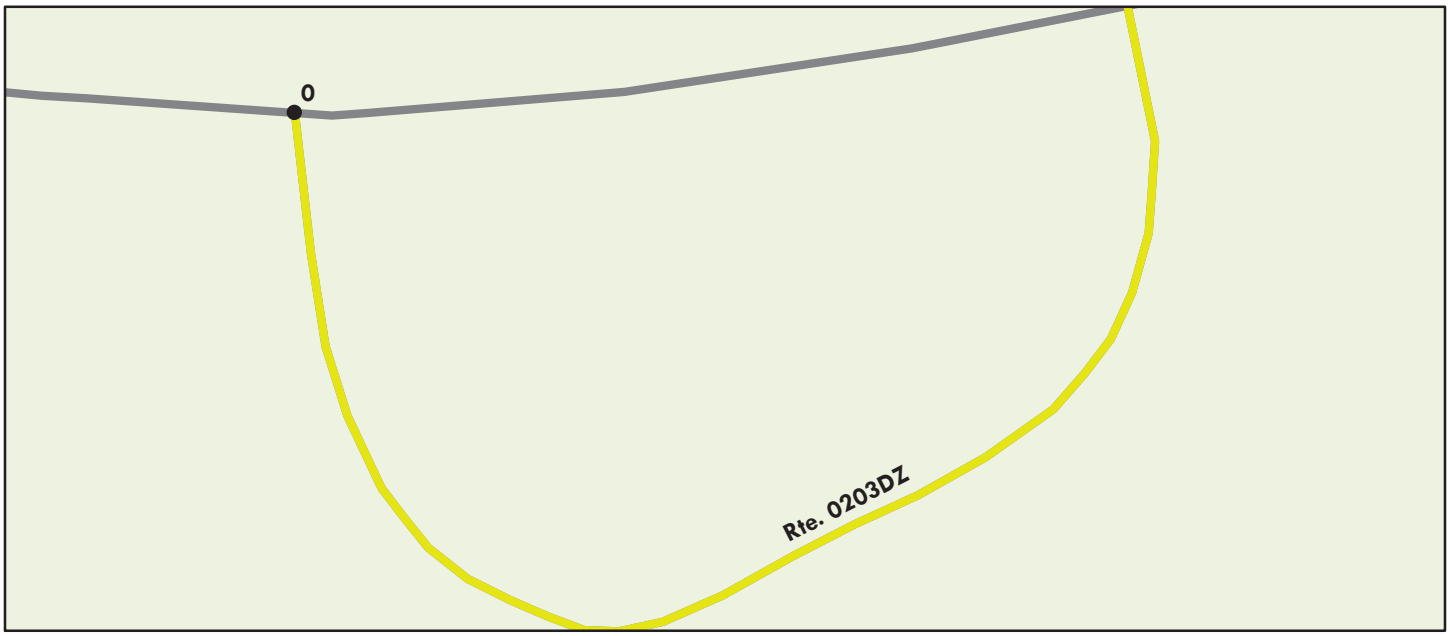
Inspection Date: 5/18/2015	**Beginning Section MP**	0				
Paved Length (Miles): 0.04	**Section Length (MI)**	0.04				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	63	63				
Surface Condition Rating (SCR)	63	63				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	84	84				
Alligator Crack Index	100	100				
Longitudinal Crack Index	84	84				
Transverse Cracking Index	63	63				
Patching Index	100	100				
Rutting Index	87	87				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	15.3	15.3				
Lane Width (ft)	15.3	15.3				

Joshua Tree National Park

ROUTE 0203DZ: JUMBO ROCKS CAMPGROUND LOOP D

Subcomponent of Route JOTR-0203ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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

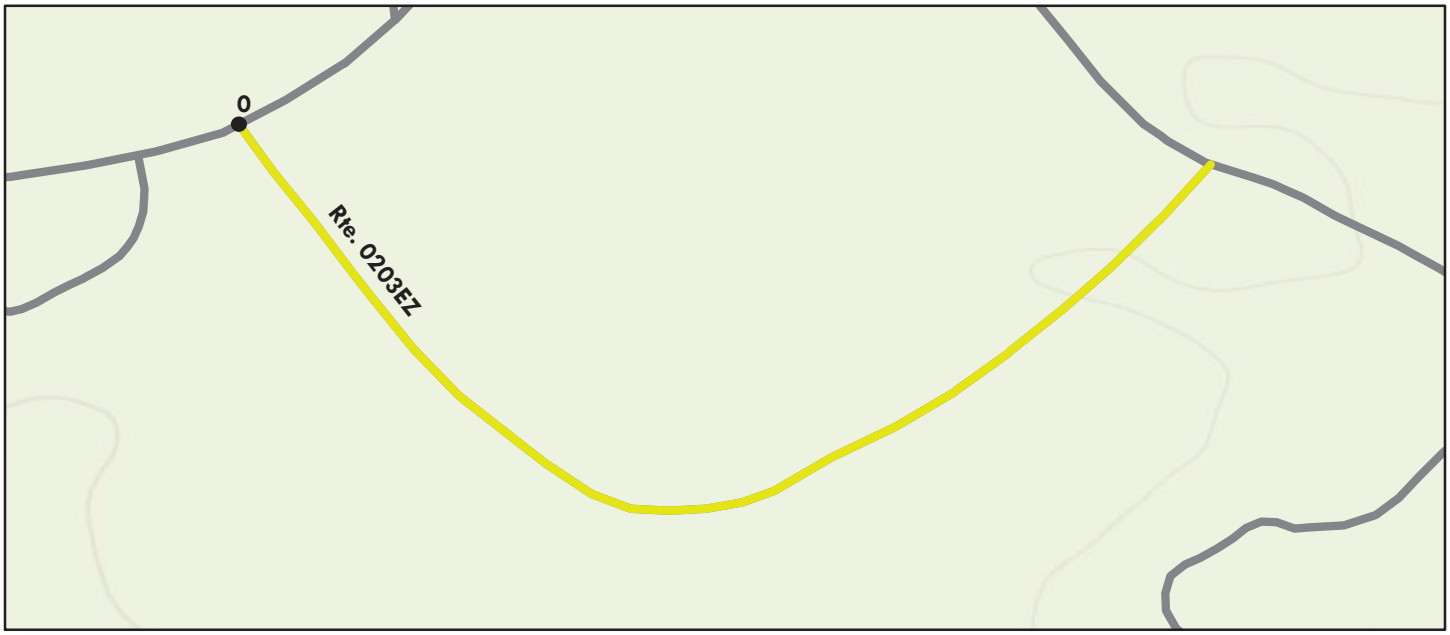
Inspection Date: 5/18/2015	**Beginning Section MP**	0				
Paved Length (Miles): 0.05	**Section Length (MI)**	0.05				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	67	67				
Surface Condition Rating (SCR)	67	67				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	97	97				
Alligator Crack Index	100	100				
Longitudinal Crack Index	97	97				
Transverse Cracking Index	67	67				
Patching Index	100	100				
Rutting Index	95	95				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	11.4	11.4				
Lane Width (ft)	11.4	11.4				

Joshua Tree National Park

ROUTE 0203EZ: JUMBO ROCKS CAMPGROUND LOOP E

Subcomponent of Route JOTR-0203ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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

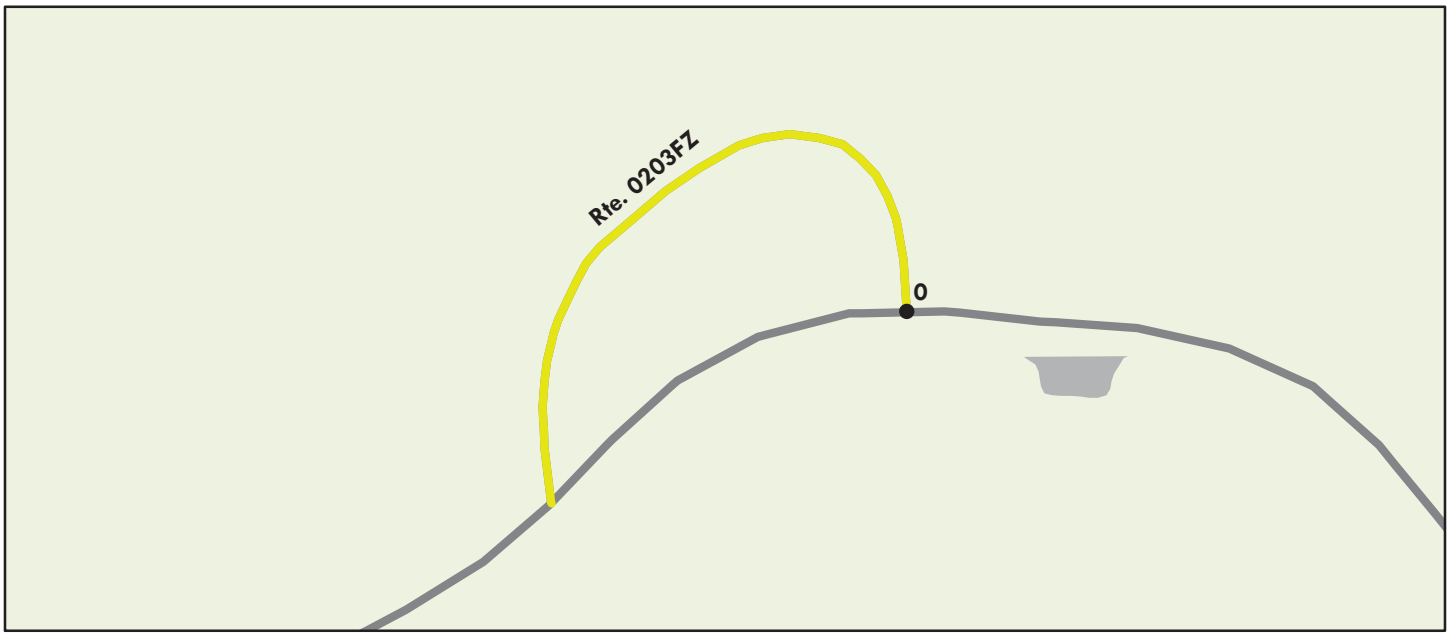
Inspection Date: 5/18/2015	**Beginning Section MP**	0				
Paved Length (Miles): 0.18	**Section Length (MI)**	0.18				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	65	65				
Surface Condition Rating (SCR)	65	65				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	88	88				
Alligator Crack Index	100	100				
Longitudinal Crack Index	88	88				
Transverse Cracking Index	65	65				
Patching Index	100	100				
Rutting Index	93	93				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	12.6	12.6				
Lane Width (ft)	12.6	12.6				

Joshua Tree National Park

ROUTE 0203FZ: JUMBO ROCKS CAMPGROUND LOOP F

Subcomponent of Route JOTR-0203ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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

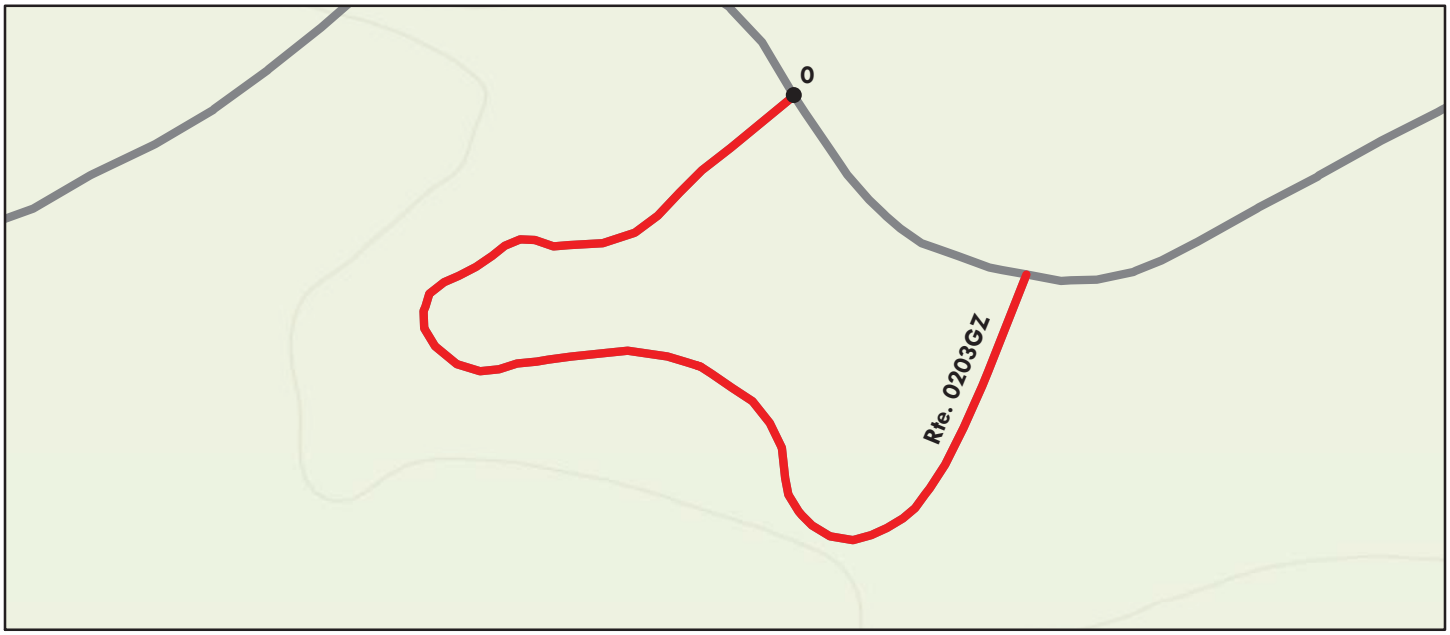
Inspection Date: 5/18/2015	**Beginning Section MP**	0				
Paved Length (Miles): 0.08	**Section Length (MI)**	0.08				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	63	63				
Surface Condition Rating (SCR)	63	63				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	97	97				
Alligator Crack Index	100	100				
Longitudinal Crack Index	97	97				
Transverse Cracking Index	63	63				
Patching Index	100	100				
Rutting Index	95	95				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	11.7	11.7				
Lane Width (ft)	11.7	11.7				

Joshua Tree National Park

ROUTE 0203GZ: JUMBO ROCKS CAMPGROUND LOOP G

Subcomponent of Route JOTR-0203ZZ

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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: 5/18/2015	**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)	52	52				
Surface Condition Rating (SCR)	52	52				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	75	75				
Alligator Crack Index	100	100				
Longitudinal Crack Index	75	75				
Transverse Cracking Index	52	52				
Patching Index	100	100				
Rutting Index	95	95				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	12.1	12.1				
Lane Width (ft)	12.1	12.1				

Joshua Tree National Park

ROUTE 0204: COTTONWOOD SPRINGS CAMPGROUND AND TRAILHEAD

Data Collection Vehicle (DCV) Rating

Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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: 5/18/2015	**Beginning Section MP**	0	1			
Paved Length (Miles): 1.14	**Section Length (MI)**	1	0.14			
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	63	64	54			
Surface Condition Rating (SCR)	64	64	62			
Roughness Condition Index (RCI)	61	64	42			
Distress Index Values						
Structural Crack Index	78	78	81			
Alligator Crack Index	100	100	100			
Longitudinal Crack Index	78	78	81			
Transverse Cracking Index	64	64	62			
Patching Index	100	100	100			
Rutting Index	97	97	99			
International Roughness Index (IRI)	237	224	328			
Lane & Width Information						
Number of Lanes	2	2	2			
Paved Width (ft)	26.1	26.1	27			
Lane Width (ft)	12.2	12.1	13.1			

Joshua Tree National Park

ROUTE 0205: BELLE CAMPGROUND ROAD

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: 5/18/2015	**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)	83	83				
Surface Condition Rating (SCR)	83	83				
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	83	83				
Patching Index	100	100				
Rutting Index	95	95				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	23.7	23.7				
Lane Width (ft)	11.9	11.9				

Joshua Tree National Park

ROUTE 0206: WHITE TANK CAMPGROUND ENTRANCE ROAD

Data Collection Vehicle (DCV) Rating

Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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: 5/18/2015	**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)	67	67				
Surface Condition Rating (SCR)	67	67				
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	67	67				
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)	22	22				
Lane Width (ft)	11	11				

Joshua Tree National Park

ROUTE 0207: HIDDEN VALLEY CAMPGROUND ENTRANCE ROAD

Data Collection Vehicle (DCV) Rating

Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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: 5/18/2015	**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)	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	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)	22.4	22.4				
Lane Width (ft)	10.7	10.7				

Joshua Tree National Park

ROUTE 0211: SHEEP PASS CAMPGROUND ENTRANCE ROAD

Data Collection Vehicle (DCV) Rating

Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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

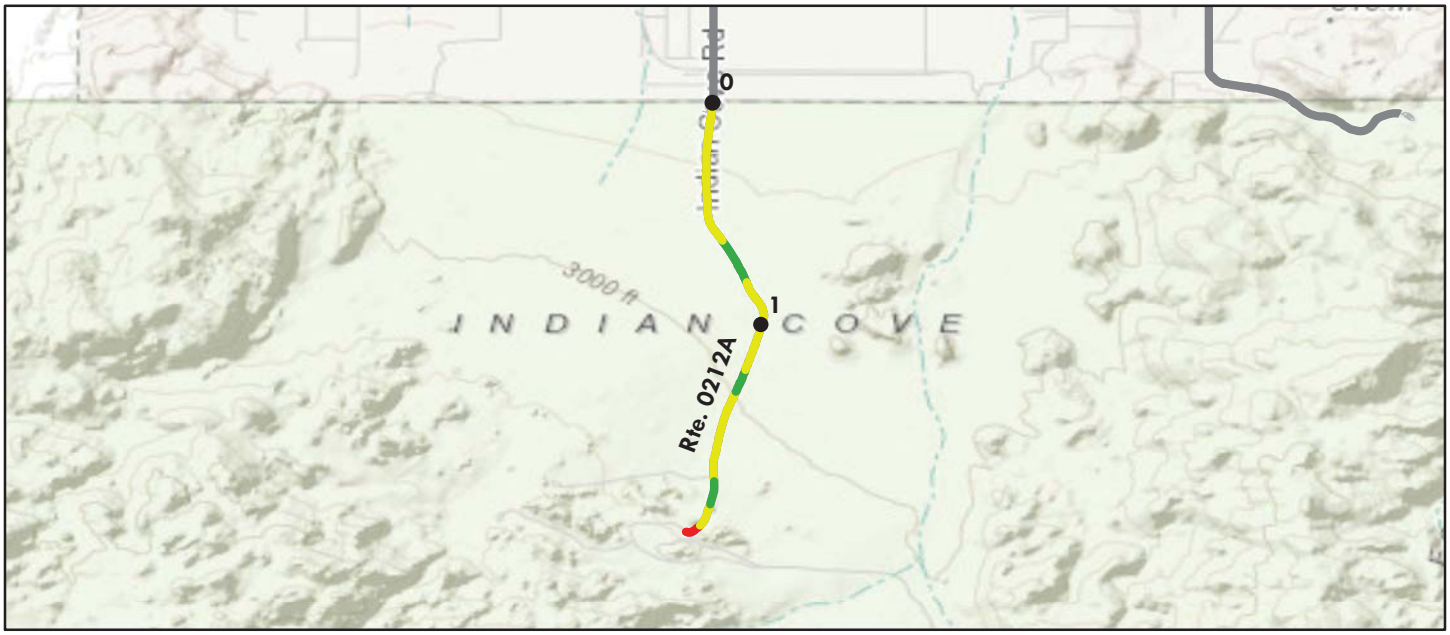
See Appendix for definitions and formulas

Inspection Date: 5/18/2015	**Beginning Section MP**	0				
Paved Length (Miles): 0.29	**Section Length (MI)**	0.29				
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	2	2				
Paved Width (ft)	18.4	18.4				
Lane Width (ft)	9.2	9.2				

Joshua Tree National Park

ROUTE 0212A: INDIAN COVE CAMPGROUND ROAD A

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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: 5/18/2015	**Beginning Section MP**	0	1			
Paved Length (Miles): 1.96	**Section Length (MI)**	1	0.96			
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	80	80	81			
Surface Condition Rating (SCR)	86	87	85			
Roughness Condition Index (RCI)	72	70	74			
Distress Index Values						
Structural Crack Index	86	87	85			
Alligator Crack Index	100	100	100			
Longitudinal Crack Index	86	87	85			
Transverse Cracking Index	89	90	88			
Patching Index	100	100	100			
Rutting Index	90	90	89			
International Roughness Index (IRI)	194	201	187			
Lane & Width Information						
Number of Lanes	2	2	2			
Paved Width (ft)	21.6	21.5	21.8			
Lane Width (ft)	9.8	9.9	9.7			

Joshua Tree National Park

ROUTE 0213: 49 PALMS OASIS ACCESS ROAD

Data Collection Vehicle (DCV) Rating

Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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

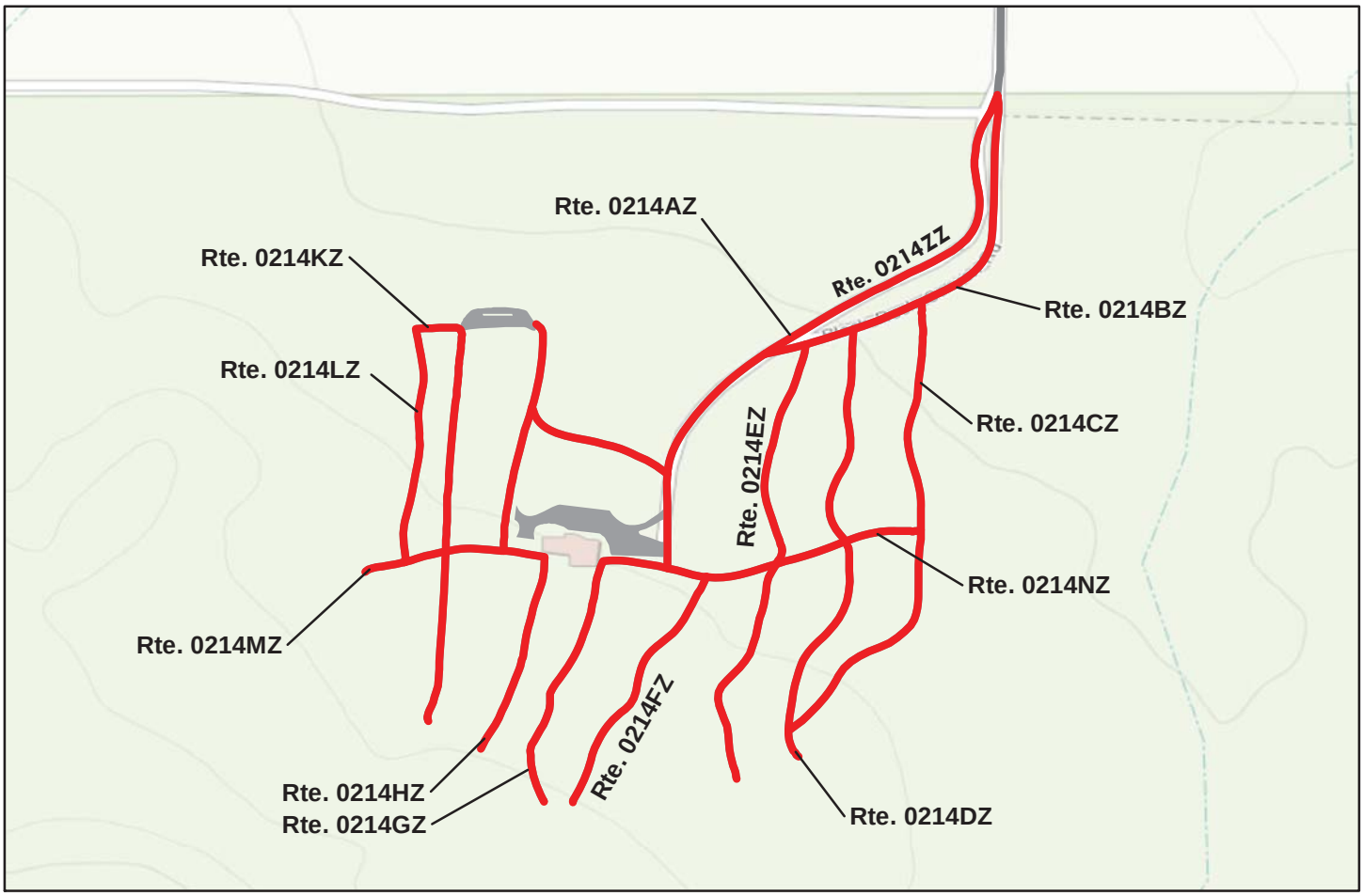
See Appendix for definitions and formulas

Inspection Date: 5/18/2015	**Beginning Section MP**	0				
Paved Length (Miles): 0.47	**Section Length (MI)**	0.47				
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	90	90				
Alligator Crack Index	100	100				
Longitudinal Crack Index	90	90				
Transverse Cracking Index	91	91				
Patching Index	100	100				
Rutting Index	93	93				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	19.5	19.5				
Lane Width (ft)	9.8	9.8				

Joshua Tree National Park

ROUTE 0214ZZ: BLACK ROCK CAMPGROUND ROADS

Summary Route



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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

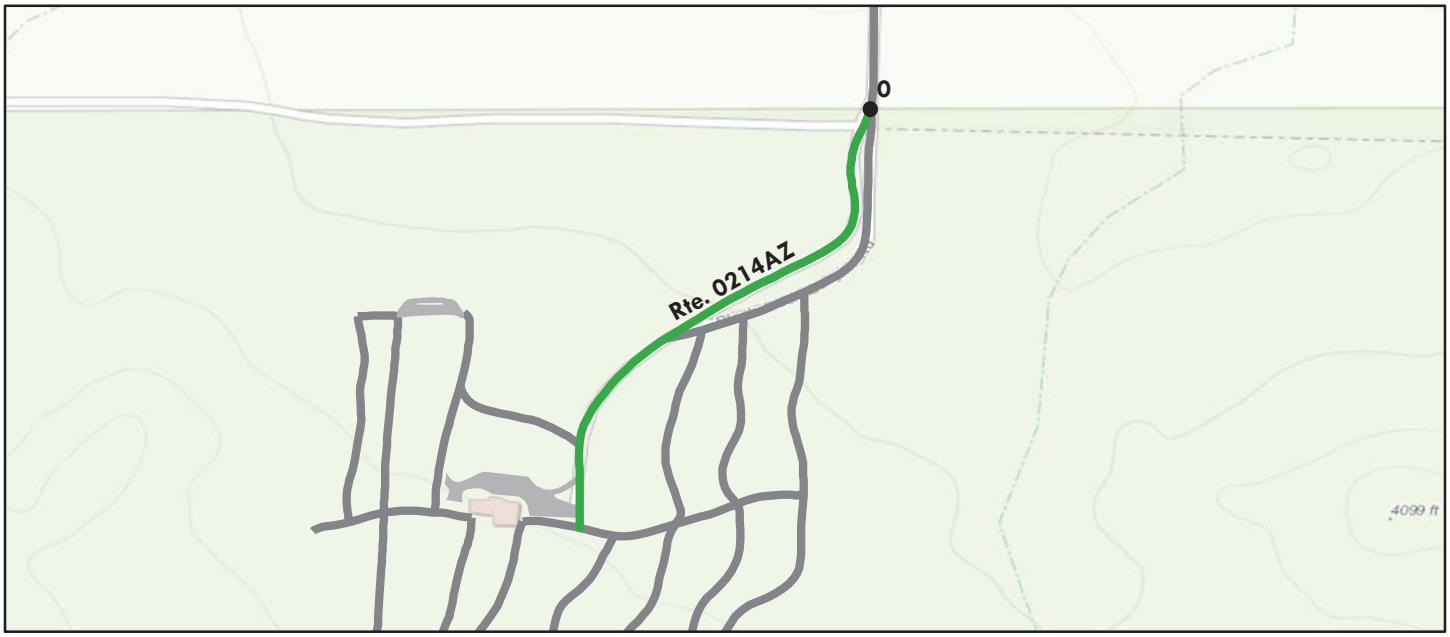
Inspection Date:	2/25/2015	
Paved Length (Miles):	1.97	
Surface Type:	ASPHALT	**Route Summary**
Roadway Condition Information		
Pavement Condition Rating (PCR)		48
Lane & Width Information		
Number of Lanes		1
Paved Width (ft)		12.4
Lane Width (ft)		9.9

Joshua Tree National Park

ROUTE 0214AZ: BLACK ROCK CAMPGROUND ROAD A

Subcomponent of Route JOTR-0214ZZ

Manual Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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: 2/25/2015	**Beginning Section MP**	0.00				
Paved Length (Miles): 0.26	**Section Length (MI)**	0.26				
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	90	90				
Longitudinal Crack Index	90	90				
Transverse Cracking Index	90	90				
Patching Index	90	90				
Rutting Index	90	90				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	16	16				
Lane Width (ft)	8	8				

Joshua Tree National Park

ROUTE 0214AZ: BLACK ROCK CAMPGROUND ROAD A

Condition Photos

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

JOTR_0214AZ_0468.JPG

JOTR_0214AZ_0469.JPG

JOTR_0214AZ_0470.JPG

JOTR_0214AZ_0471.JPG

JOTR_0214AZ_0472.JPG

Joshua Tree National Park

ROUTE 0214BZ: BLACK ROCK CAMPGROUND ROAD B

Subcomponent of Route JOTR-0214ZZ

Manual Rating

Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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: 2/25/2015	**Beginning Section MP**	0.00					
Paved Length (Miles): 0.16	**Section Length (MI)**	0.16					
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	90	90					
Longitudinal Crack Index	90	90					
Transverse Cracking Index	90	90					
Patching Index	90	90					
Rutting Index	90	90					
International Roughness Index (IRI)	N/A	N/A					
Lane & Width Information							
Number of Lanes	2	2					
Paved Width (ft)	16	16					
Lane Width (ft)	8	8					

Joshua Tree National Park

ROUTE 0214BZ: BLACK ROCK CAMPGROUND ROAD B

Condition Photos

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

JOTR_0214BZ_0512.JPG

JOTR_0214BZ_0513.JPG

JOTR_0214BZ_0514.JPG

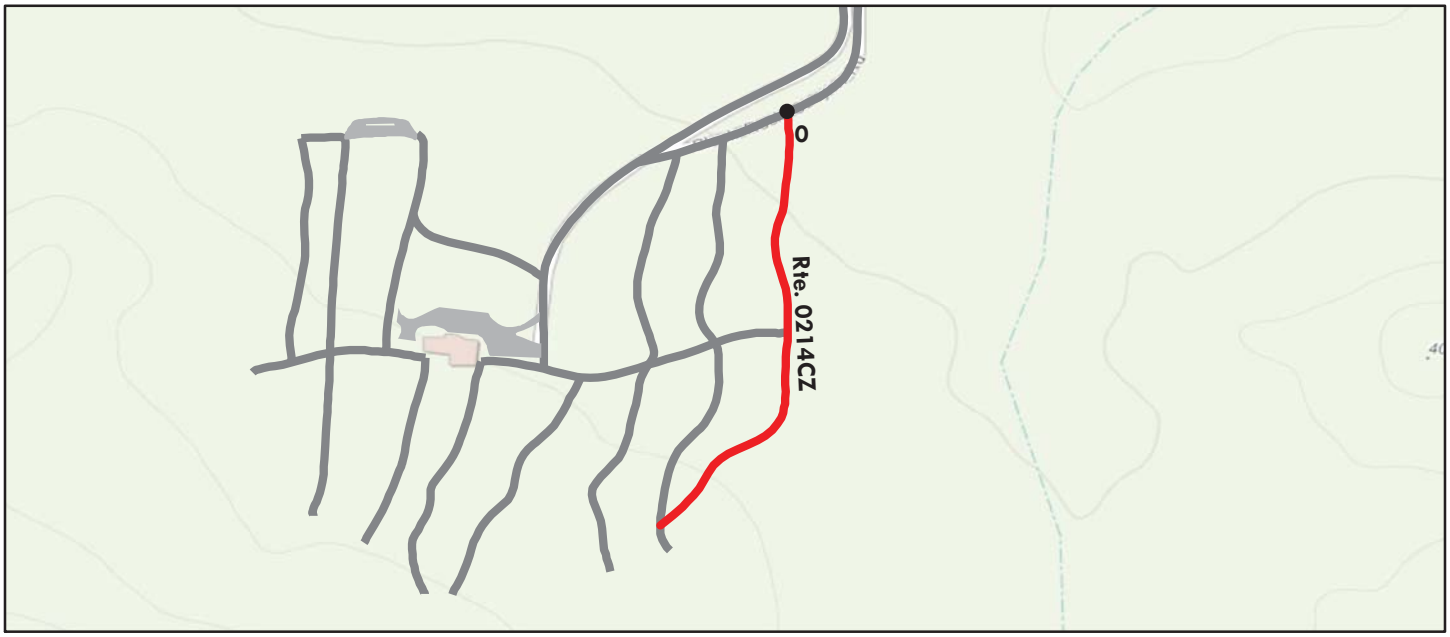
JOTR_0214BZ_0515.JPG

Joshua Tree National Park

ROUTE 0214CZ: BLACK ROCK CAMPGROUND ROAD C

Subcomponent of Route JOTR-0214ZZ

Manual Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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:	2/25/2015	**Beginning Section MP**	0.00				
Paved Length (Miles):	0.21	**Section Length (MI)**	0.21				
Surface Type:	ASPHALT	**Route Summary**					
Roadway Condition Information							
Pavement Condition Rating (PCR)		30	30				
Surface Condition Rating (SCR)		30	30				
Roughness Condition Index (RCI)		N/A	N/A				
Distress Index Values							
Structural Crack Index		N/A	N/A				
Alligator Crack Index		30	30				
Longitudinal Crack Index		30	30				
Transverse Cracking Index		53	53				
Patching Index		97	97				
Rutting Index		53	53				
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				

Joshua Tree National Park

ROUTE 0214CZ: BLACK ROCK CAMPGROUND ROAD C

Condition Photos

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

JOTR_0214CZ_0473.JPG

JOTR_0214CZ_0474.JPG

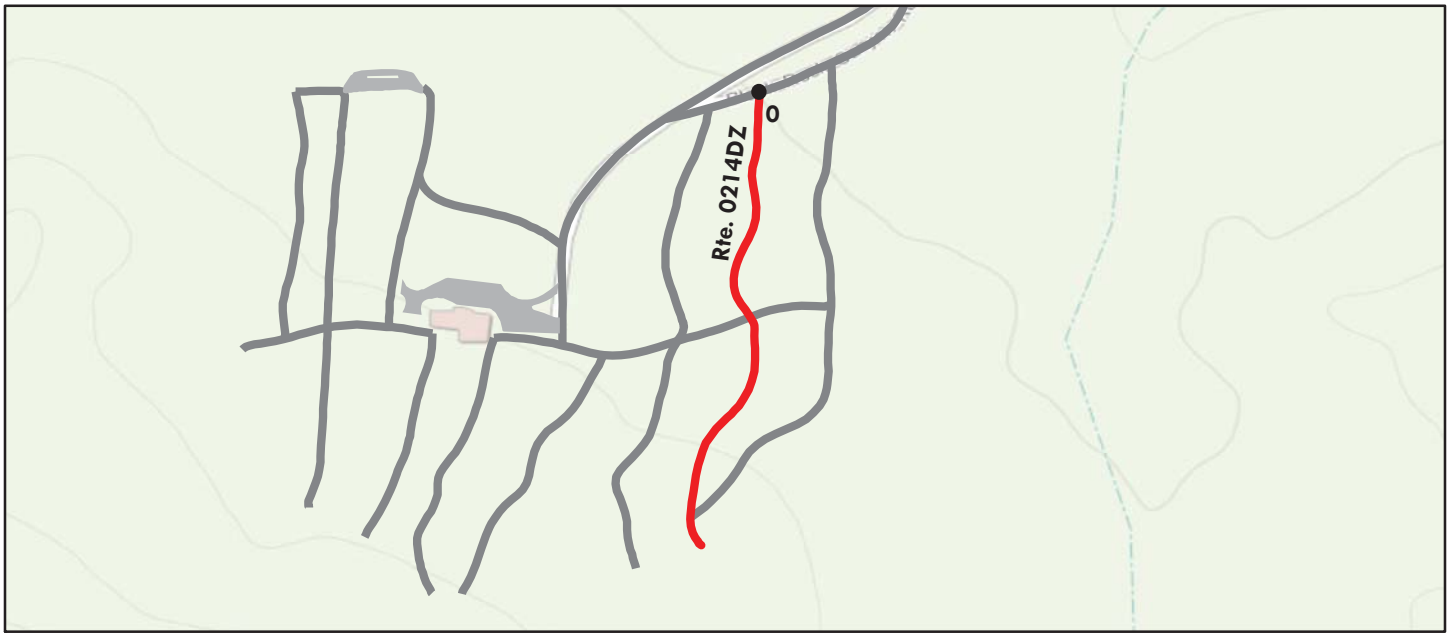
JOTR_0214CZ_0475.JPG

Joshua Tree National Park

ROUTE 0214DZ: BLACK ROCK CAMPGROUND ROAD D

Subcomponent of Route JOTR-0214ZZ

Manual Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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: 2/25/2015	**Beginning Section MP**	0.00				
Paved Length (Miles): 0.20	**Section Length (MI)**	0.20				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	30	30				
Surface Condition Rating (SCR)	30	30				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	N/A	N/A				
Alligator Crack Index	30	30				
Longitudinal Crack Index	30	30				
Transverse Cracking Index	53	53				
Patching Index	30	30				
Rutting Index	53	53				
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				

Joshua Tree National Park

ROUTE 0214DZ: BLACK ROCK CAMPGROUND ROAD D

Condition Photos

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

JOTR_0214DZ_0476.JPG

JOTR_0214DZ_0477.JPG

JOTR_0214DZ_0478.JPG

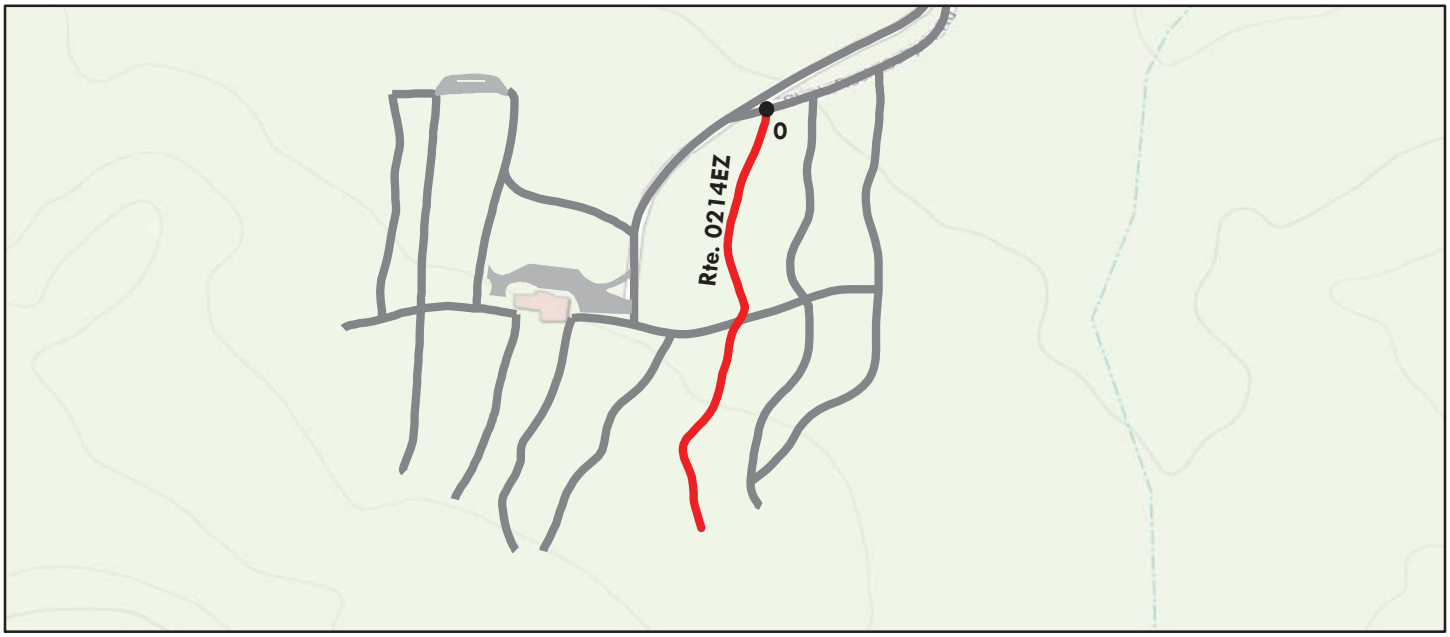
JOTR_0214DZ_0479.JPG

Joshua Tree National Park

ROUTE 0214EZ: BLACK ROCK CAMPGROUND ROAD E

Subcomponent of Route JOTR-0214ZZ

Manual Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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: 2/25/2015	**Beginning Section MP**	0.00				
Paved Length (Miles): 0.20	**Section Length (MI)**	0.20				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	30	30				
Surface Condition Rating (SCR)	30	30				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	N/A	N/A				
Alligator Crack Index	30	30				
Longitudinal Crack Index	30	30				
Transverse Cracking Index	53	53				
Patching Index	30	30				
Rutting Index	53	53				
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				

Joshua Tree National Park

ROUTE 0214EZ: BLACK ROCK CAMPGROUND ROAD E

Condition Photos

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

JOTR_0214EZ_0480.JPG

JOTR_0214EZ_0481.JPG

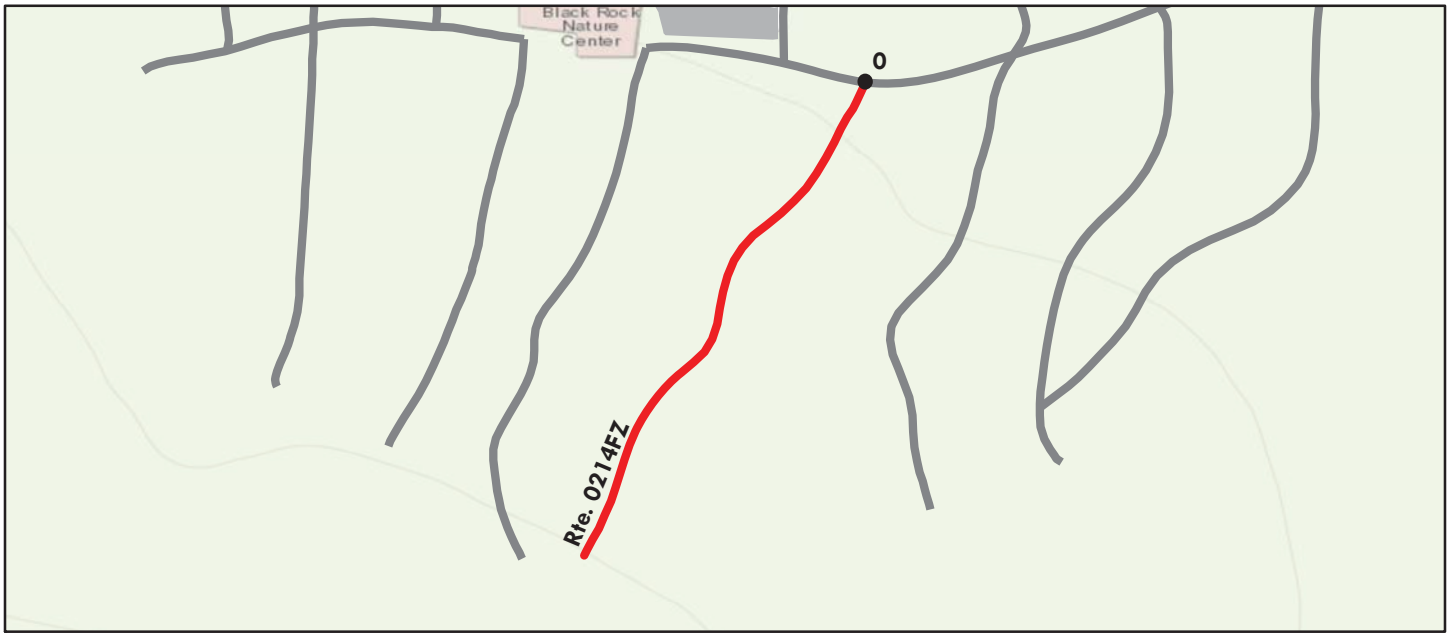
JOTR_0214EZ_0482.JPG

Joshua Tree National Park

ROUTE 0214FZ: BLACK ROCK CAMPGROUND ROAD F

Subcomponent of Route JOTR-0214ZZ

Manual Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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:	2/25/2015	**Beginning Section MP**	0.00				
Paved Length (Miles):	0.11	**Section Length (MI)**	0.11				
Surface Type:	ASPHALT	**Route Summary**					
Roadway Condition Information							
Pavement Condition Rating (PCR)		30	30				
Surface Condition Rating (SCR)		30	30				
Roughness Condition Index (RCI)		N/A	N/A				
Distress Index Values							
Structural Crack Index		N/A	N/A				
Alligator Crack Index		30	30				
Longitudinal Crack Index		30	30				
Transverse Cracking Index		53	53				
Patching Index		30	30				
Rutting Index		53	53				
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				

Joshua Tree National Park

ROUTE 0214FZ: BLACK ROCK CAMPGROUND ROAD F

Condition Photos

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

JOTR_0214FZ_0483.JPG

JOTR_0214FZ_0484.JPG

JOTR_0214FZ_0485.JPG

Joshua Tree National Park

ROUTE 0214GZ: BLACK ROCK CAMPGROUND ROAD G

Subcomponent of Route JOTR-0214ZZ

Manual Rating

Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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:	2/25/2015	**Beginning Section MP**	0.00				
Paved Length (Miles):	0.11	**Section Length (MI)**	0.11				
Surface Type:	ASPHALT	**Route Summary**					
Roadway Condition Information							
Pavement Condition Rating (PCR)		30	30				
Surface Condition Rating (SCR)		30	30				
Roughness Condition Index (RCI)		N/A	N/A				
Distress Index Values							
Structural Crack Index		N/A	N/A				
Alligator Crack Index		30	30				
Longitudinal Crack Index		30	30				
Transverse Cracking Index		53	53				
Patching Index		30	30				
Rutting Index		53	53				
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				

Joshua Tree National Park

ROUTE 0214GZ: BLACK ROCK CAMPGROUND ROAD G

Condition Photos

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

JOTR_0214GZ_0486.JPG

JOTR_0214GZ_0487.JPG

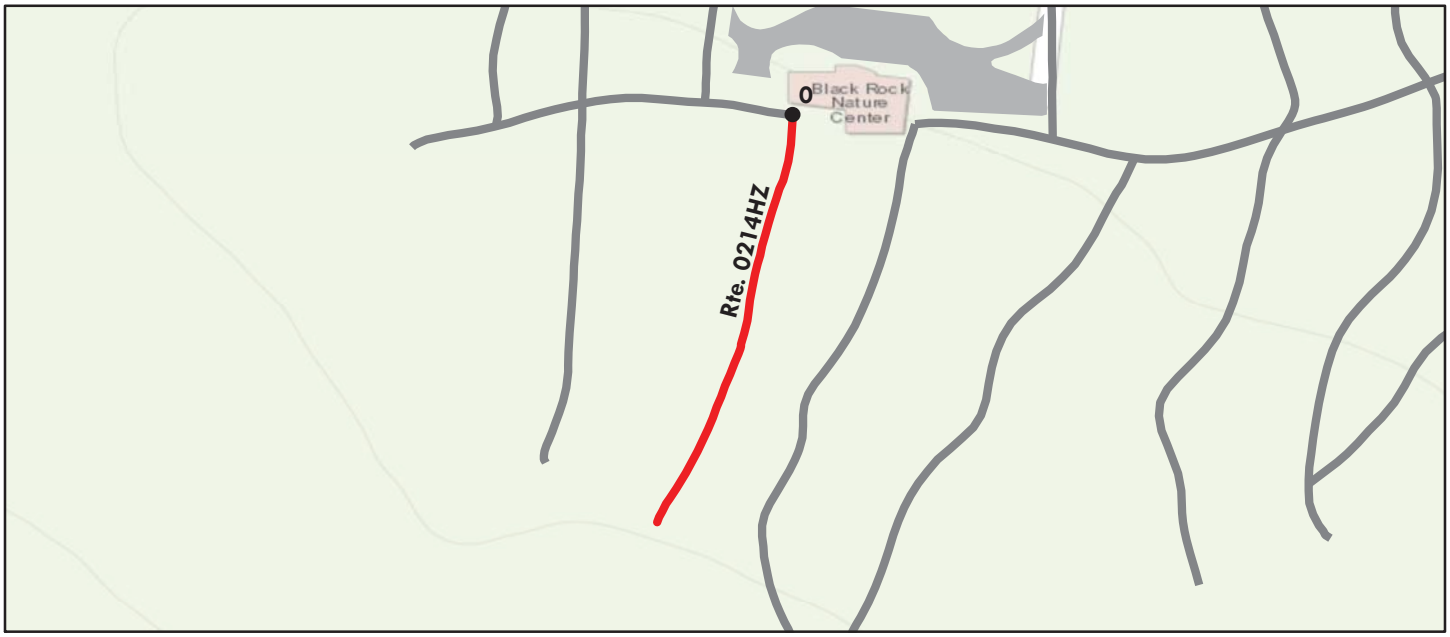
JOTR_0214GZ_0488.JPG

Joshua Tree National Park

ROUTE 0214HZ: BLACK ROCK CAMPGROUND ROAD H

Subcomponent of Route JOTR-0214ZZ

Manual Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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:	2/25/2015	**Beginning Section MP**	0.00				
Paved Length (Miles):	0.09	**Section Length (MI)**	0.09				
Surface Type:	ASPHALT	**Route Summary**					
Roadway Condition Information							
Pavement Condition Rating (PCR)		30	30				
Surface Condition Rating (SCR)		30	30				
Roughness Condition Index (RCI)		N/A	N/A				
Distress Index Values							
Structural Crack Index		N/A	N/A				
Alligator Crack Index		30	30				
Longitudinal Crack Index		30	30				
Transverse Cracking Index		53	53				
Patching Index		30	30				
Rutting Index		53	53				
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				

Joshua Tree National Park

ROUTE 0214HZ: BLACK ROCK CAMPGROUND ROAD H

Condition Photos

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

JOTR_0214HZ_0489.JPG

JOTR_0214HZ_0490.JPG

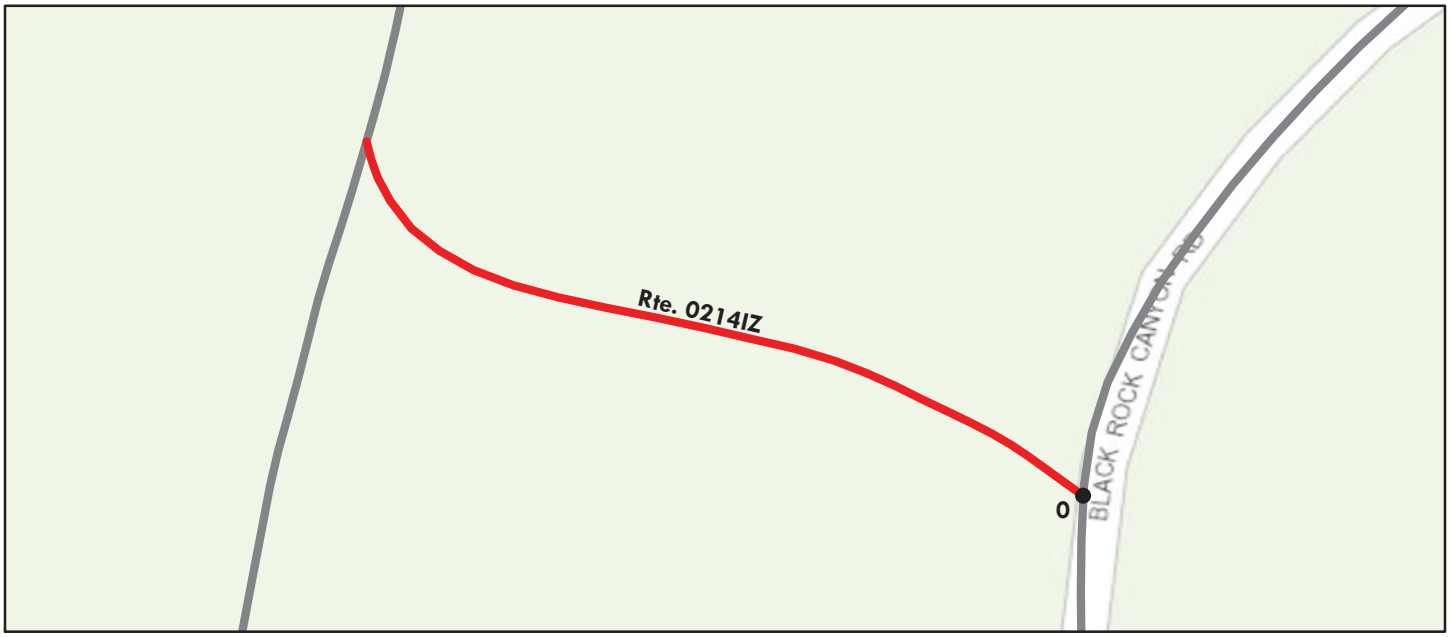
JOTR_0214HZ_0491.JPG

Joshua Tree National Park

ROUTE 0214IZ: BLACK ROCK CAMPGROUND ROAD I

Subcomponent of Route JOTR-0214ZZ

Manual Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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:	2/25/2015	**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)		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		53	53				
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				

Joshua Tree National Park

ROUTE 0214IZ: BLACK ROCK CAMPGROUND ROAD I

Condition Photos

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

JOTR_0214IZ_0505.JPG

JOTR_0214IZ_0506.JPG

JOTR_0214IZ_0507.JPG

Joshua Tree National Park

ROUTE 0214JZ: BLACK ROCK CAMPGROUND ROAD J

Subcomponent of Route JOTR-0214ZZ

Manual Rating

Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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:	2/25/2015	**Beginning Section MP**	0.00				
Paved Length (Miles):	0.10	**Section Length (MI)**	0.10				
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		53	53				
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				

Joshua Tree National Park

ROUTE 0214JZ: BLACK ROCK CAMPGROUND ROAD J

Condition Photos

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

JOTR_0214JZ_0508.JPG

JOTR_0214JZ_0509.JPG

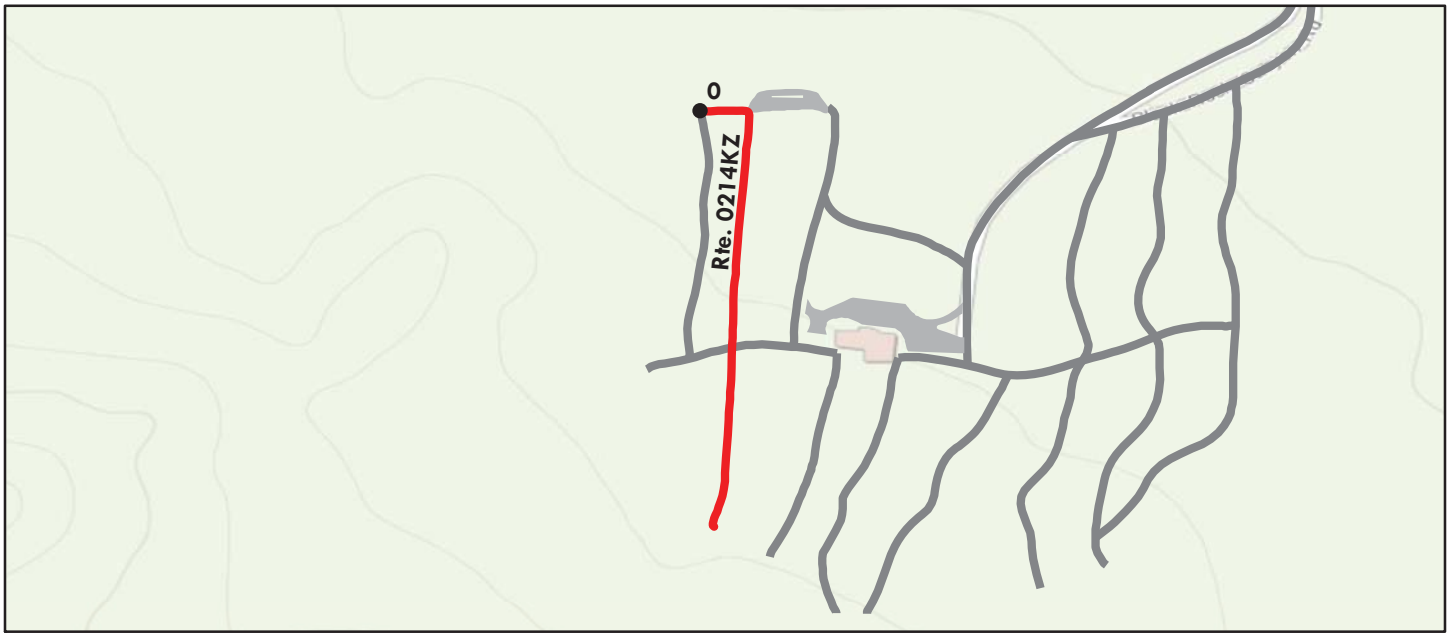
JOTR_0214JZ_0510.JPG

Joshua Tree National Park

ROUTE 0214KZ: BLACK ROCK CAMPGROUND ROAD K

Subcomponent of Route JOTR-0214ZZ

Manual Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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: 2/25/2015	**Beginning Section MP**	0.00				
Paved Length (Miles): 0.19	**Section Length (MI)**	0.19				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	30	30				
Surface Condition Rating (SCR)	30	30				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	N/A	N/A				
Alligator Crack Index	30	30				
Longitudinal Crack Index	30	30				
Transverse Cracking Index	53	53				
Patching Index	30	30				
Rutting Index	53	53				
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				

Joshua Tree National Park

ROUTE 0214KZ: BLACK ROCK CAMPGROUND ROAD K

Condition Photos

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

JOTR_0214KZ_0492.JPG

JOTR_0214KZ_0493.JPG

JOTR_0214KZ_0494.JPG

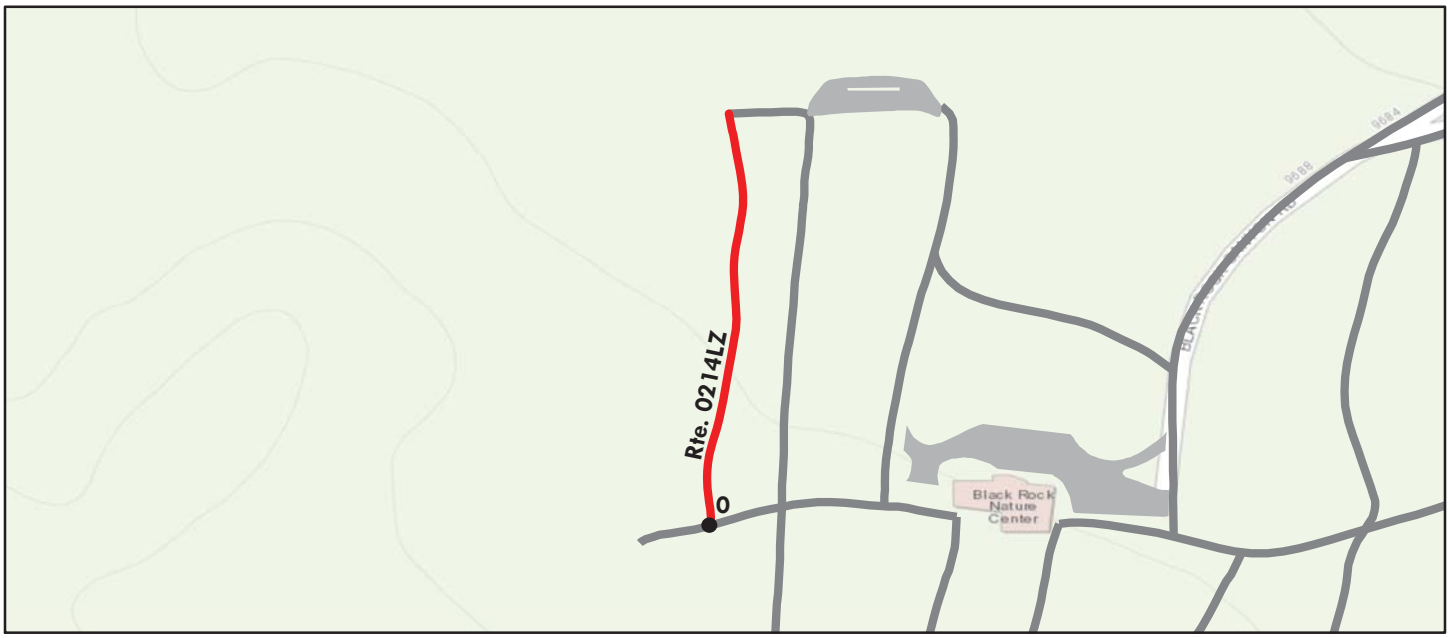
JOTR_0214KZ_0495.JPG

Joshua Tree National Park

ROUTE 0214LZ: BLACK ROCK CAMPGROUND ROAD L

Subcomponent of Route JOTR-0214ZZ

Manual Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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: 2/25/2015	**Beginning Section MP**	0.00					
Paved Length (Miles): 0.10	**Section Length (MI)**	0.10					
Surface Type: ASPHALT	**Route Summary**						
Roadway Condition Information							
Pavement Condition Rating (PCR)	30	30					
Surface Condition Rating (SCR)	30	30					
Roughness Condition Index (RCI)	N/A	N/A					
Distress Index Values							
Structural Crack Index	N/A	N/A					
Alligator Crack Index	30	30					
Longitudinal Crack Index	30	30					
Transverse Cracking Index	53	53					
Patching Index	30	30					
Rutting Index	53	53					
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					

Joshua Tree National Park

ROUTE 0214LZ: BLACK ROCK CAMPGROUND ROAD L

Condition Photos

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

JOTR_0214LZ_0496.JPG

JOTR_0214LZ_0497.JPG

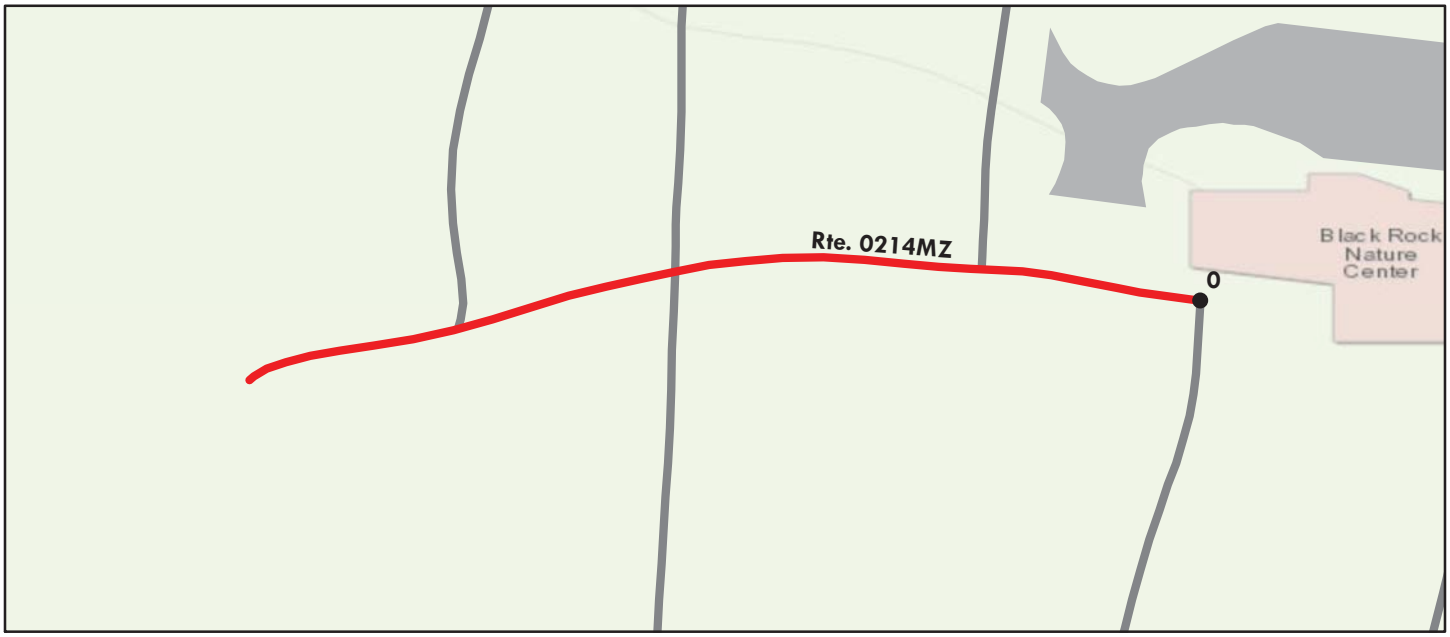
JOTR_0214LZ_0498.JPG

Joshua Tree National Park

ROUTE 0214MZ: BLACK ROCK CAMPGROUND ROAD M

Subcomponent of Route JOTR-0214ZZ

Manual Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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:	2/25/2015	**Beginning Section MP**	0.00				
Paved Length (Miles):	0.07	**Section Length (MI)**	0.07				
Surface Type:	ASPHALT	**Route Summary**					
Roadway Condition Information							
Pavement Condition Rating (PCR)		30	30				
Surface Condition Rating (SCR)		30	30				
Roughness Condition Index (RCI)		N/A	N/A				
Distress Index Values							
Structural Crack Index		N/A	N/A				
Alligator Crack Index		30	30				
Longitudinal Crack Index		30	30				
Transverse Cracking Index		53	53				
Patching Index		30	30				
Rutting Index		53	53				
International Roughness Index (IRI)		N/A	N/A				
Lane & Width Information							
Number of Lanes		2	2				
Paved Width (ft)		16	16				
Lane Width (ft)		8	8				

Joshua Tree National Park

ROUTE 0214MZ: BLACK ROCK CAMPGROUND ROAD M

Condition Photos

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

JOTR_0214MZ_0499.JPG

JOTR_0214MZ_0500.JPG

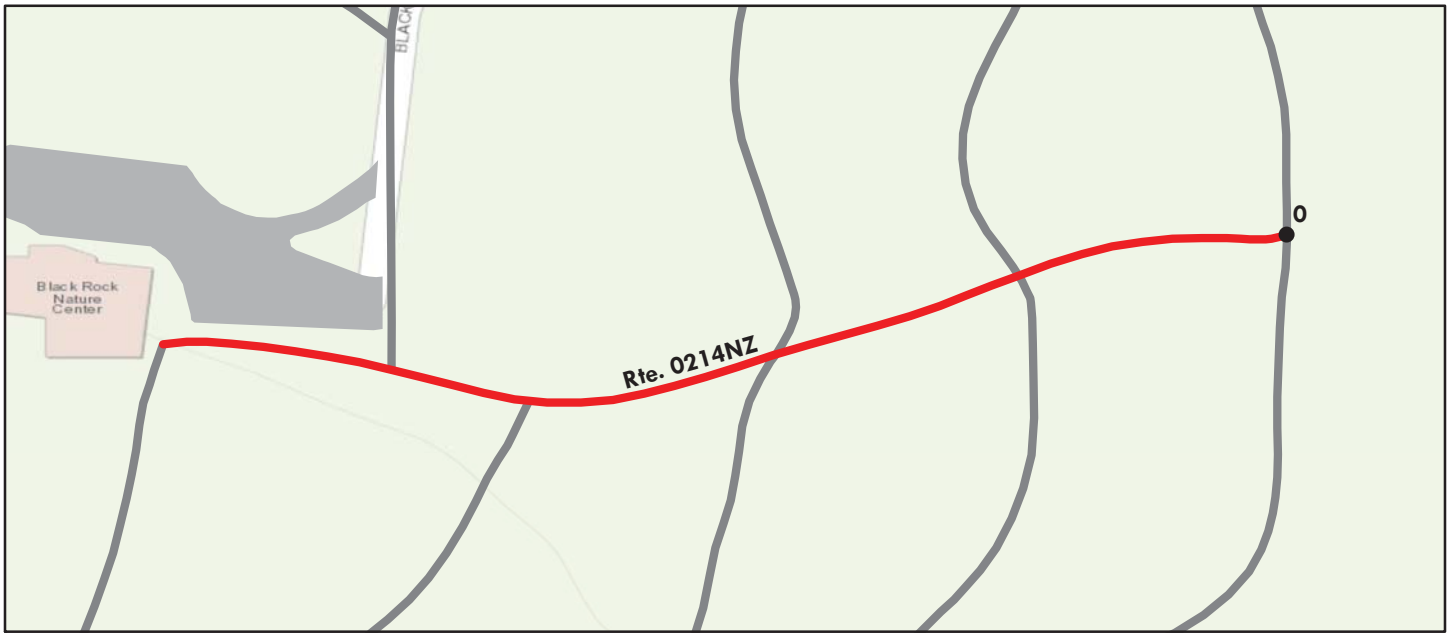
JOTR_0214MZ_0501.JPG

Joshua Tree National Park

ROUTE 0214NZ: BLACK ROCK CAMPGROUND ROAD N

Subcomponent of Route JOTR-0214ZZ

Manual Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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:	2/25/2015	**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)		30	30				
Surface Condition Rating (SCR)		30	30				
Roughness Condition Index (RCI)		N/A	N/A				
Distress Index Values							
Structural Crack Index		N/A	N/A				
Alligator Crack Index		30	30				
Longitudinal Crack Index		30	30				
Transverse Cracking Index		53	53				
Patching Index		30	30				
Rutting Index		53	53				
International Roughness Index (IRI)		N/A	N/A				
Lane & Width Information							
Number of Lanes		2	2				
Paved Width (ft)		16	16				
Lane Width (ft)		8	8				

Joshua Tree National Park

ROUTE 0214NZ: BLACK ROCK CAMPGROUND ROAD N

Condition Photos

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

JOTR_0214NZ_0502.JPG

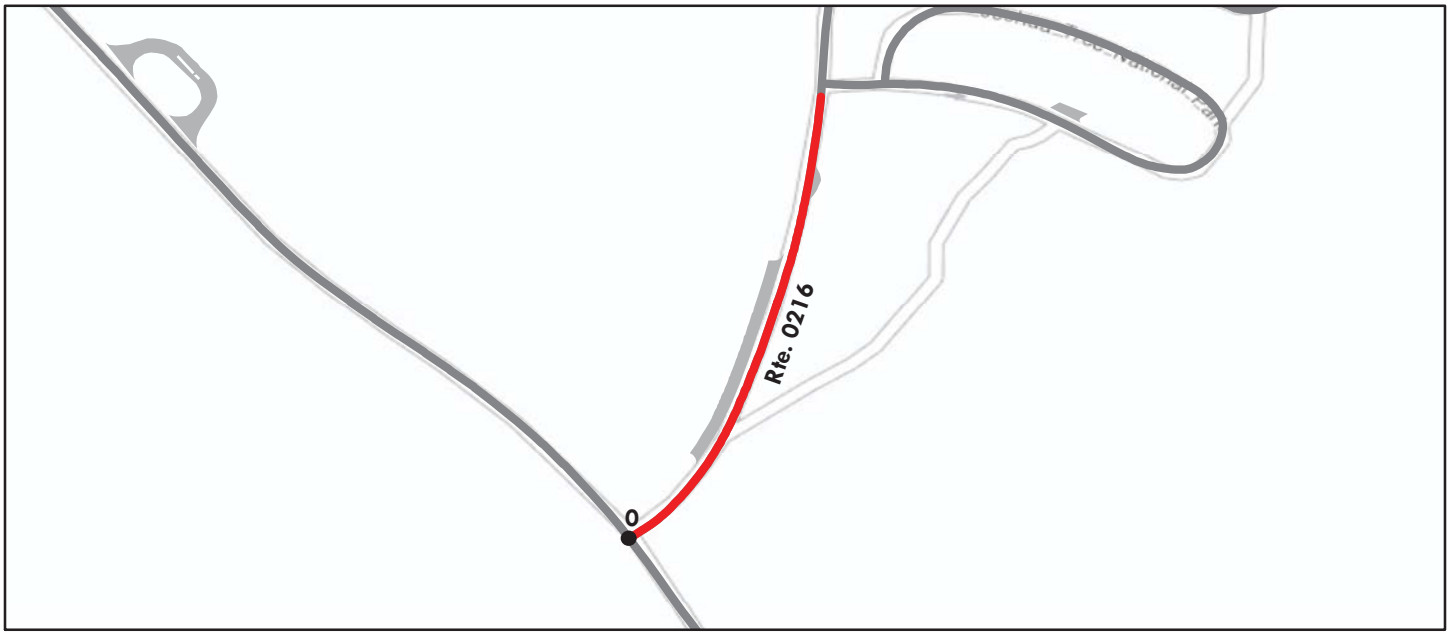
JOTR_0214NZ_0503.JPG

JOTR_0214NZ_0504.JPG

Joshua Tree National Park

ROUTE 0216: COTTONWOOD CAMPGROUND ENTRANCE ROAD

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: 5/18/2015	**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)	38	38				
Surface Condition Rating (SCR)	38	38				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	67	67				
Alligator Crack Index	100	100				
Longitudinal Crack Index	67	67				
Transverse Cracking Index	38	38				
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)	19.7	19.7				
Lane Width (ft)	9.8	9.8				

Joshua Tree National Park

ROUTE 0216A: COTTONWOOD CAMPGROUND LOOP A

Data Collection Vehicle (DCV) Rating

Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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

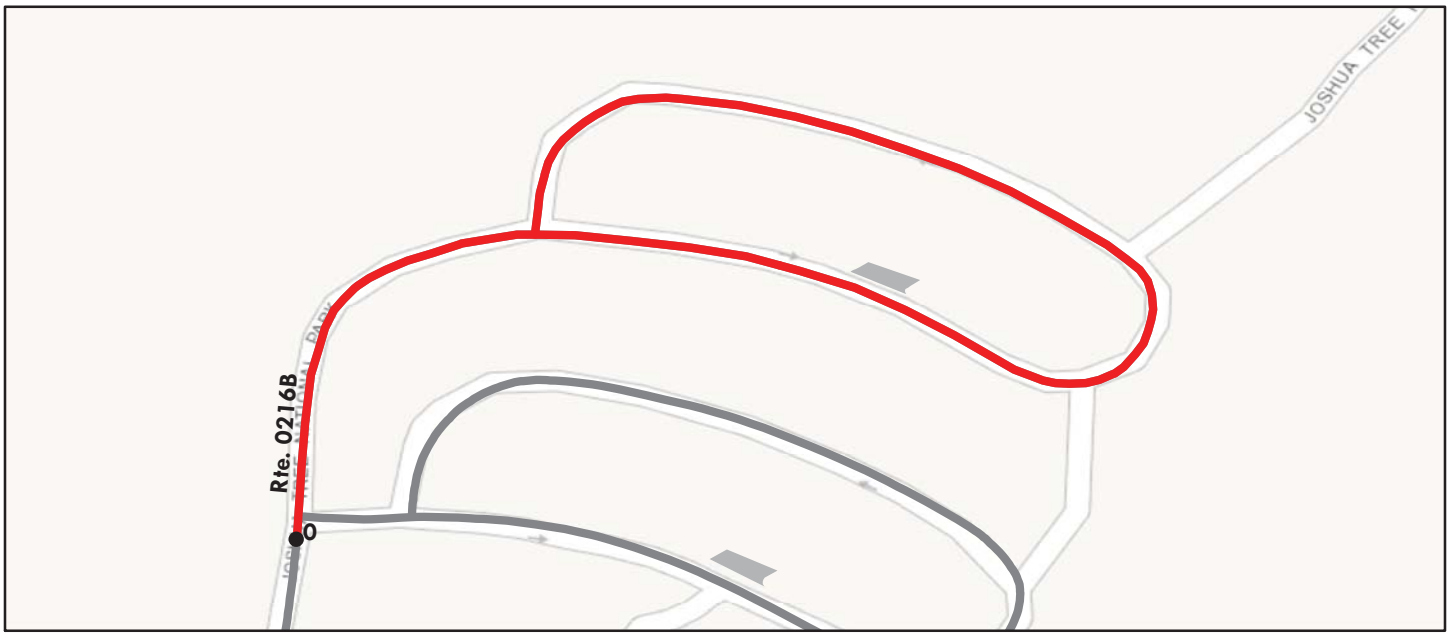
See Appendix for definitions and formulas

Inspection Date: 5/18/2015	**Beginning Section MP**	0				
Paved Length (Miles): 0.27	**Section Length (MI)**	0.27				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	27	27				
Surface Condition Rating (SCR)	27	27				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	67	67				
Alligator Crack Index	100	100				
Longitudinal Crack Index	67	67				
Transverse Cracking Index	27	27				
Patching Index	100	100				
Rutting Index	93	93				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	14.1	14.1				
Lane Width (ft)	14.1	14.1				

Joshua Tree National Park

ROUTE 0216B: COTTONWOOD CAMPGROUND LOOP B

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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

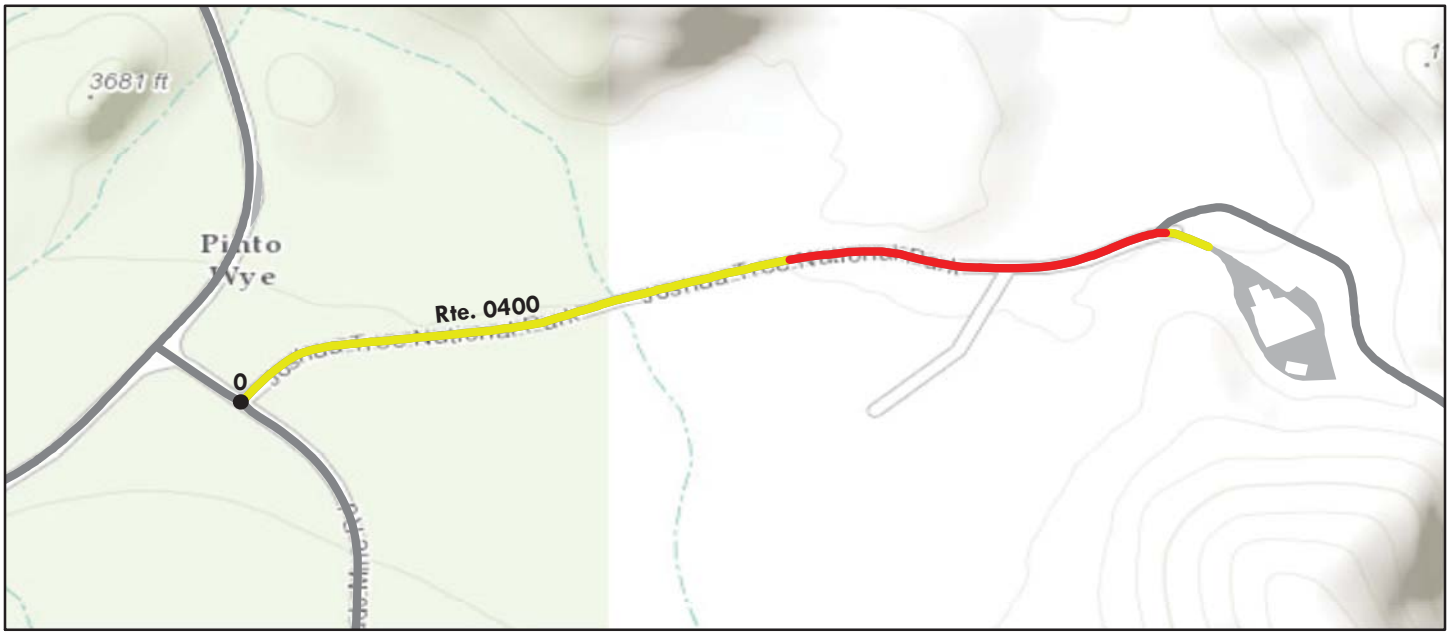
See Appendix for definitions and formulas

Inspection Date: 5/18/2015	**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)	27	27				
Surface Condition Rating (SCR)	27	27				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	74	74				
Alligator Crack Index	100	100				
Longitudinal Crack Index	74	74				
Transverse Cracking Index	27	27				
Patching Index	100	100				
Rutting Index	96	96				
International Roughness Index (IRI)	N/A	N/A				
Lane & Width Information						
Number of Lanes	1	1				
Paved Width (ft)	17.1	17.1				
Lane Width (ft)	14.5	14.5				

Joshua Tree National Park

ROUTE 0400: PINTO WYE ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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

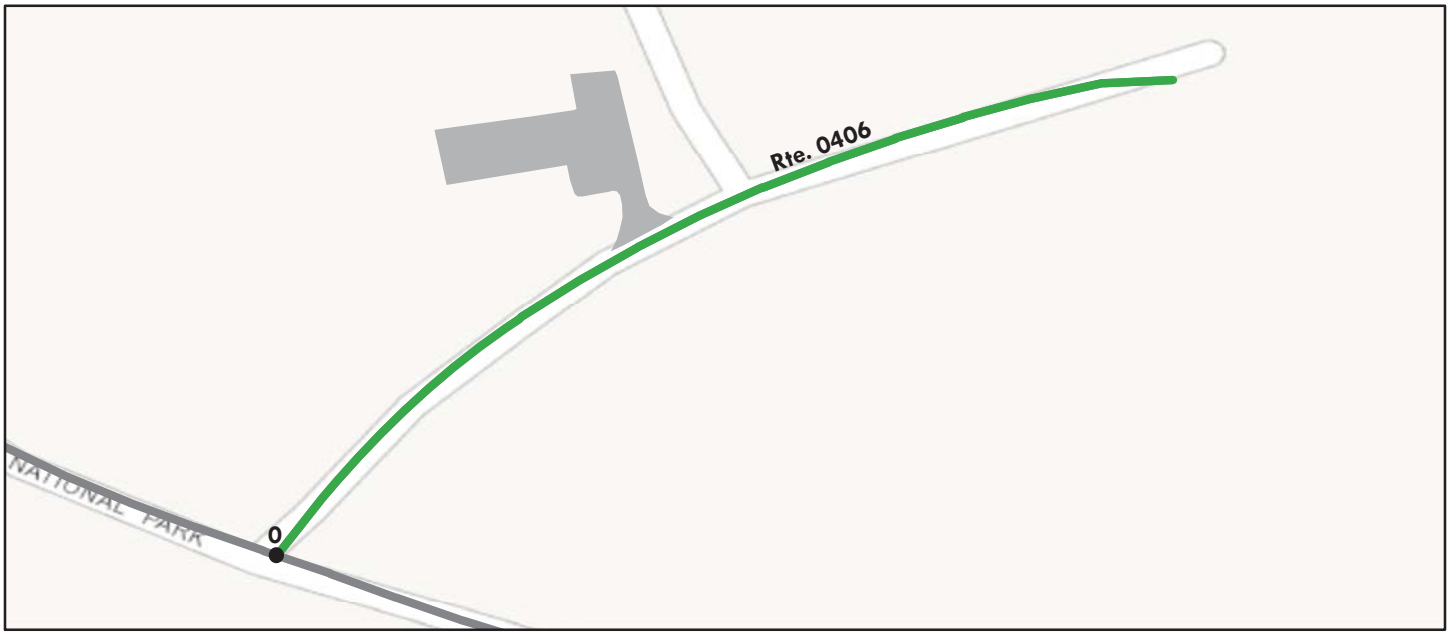
See Appendix for definitions and formulas

Inspection Date: 5/18/2015	**Beginning Section MP**	0				
Paved Length (Miles): 0.52	**Section Length (MI)**	0.52				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	66	66				
Surface Condition Rating (SCR)	70	70				
Roughness Condition Index (RCI)	60	60				
Distress Index Values						
Structural Crack Index	94	94				
Alligator Crack Index	100	100				
Longitudinal Crack Index	94	94				
Transverse Cracking Index	70	70				
Patching Index	100	100				
Rutting Index	98	98				
International Roughness Index (IRI)	238	238				
Lane & Width Information						
Number of Lanes	2	2				
Paved Width (ft)	18.4	18.4				
Lane Width (ft)	9.2	9.2				

Joshua Tree National Park

ROUTE 0406: COTTONWOOD RESIDENTIAL ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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

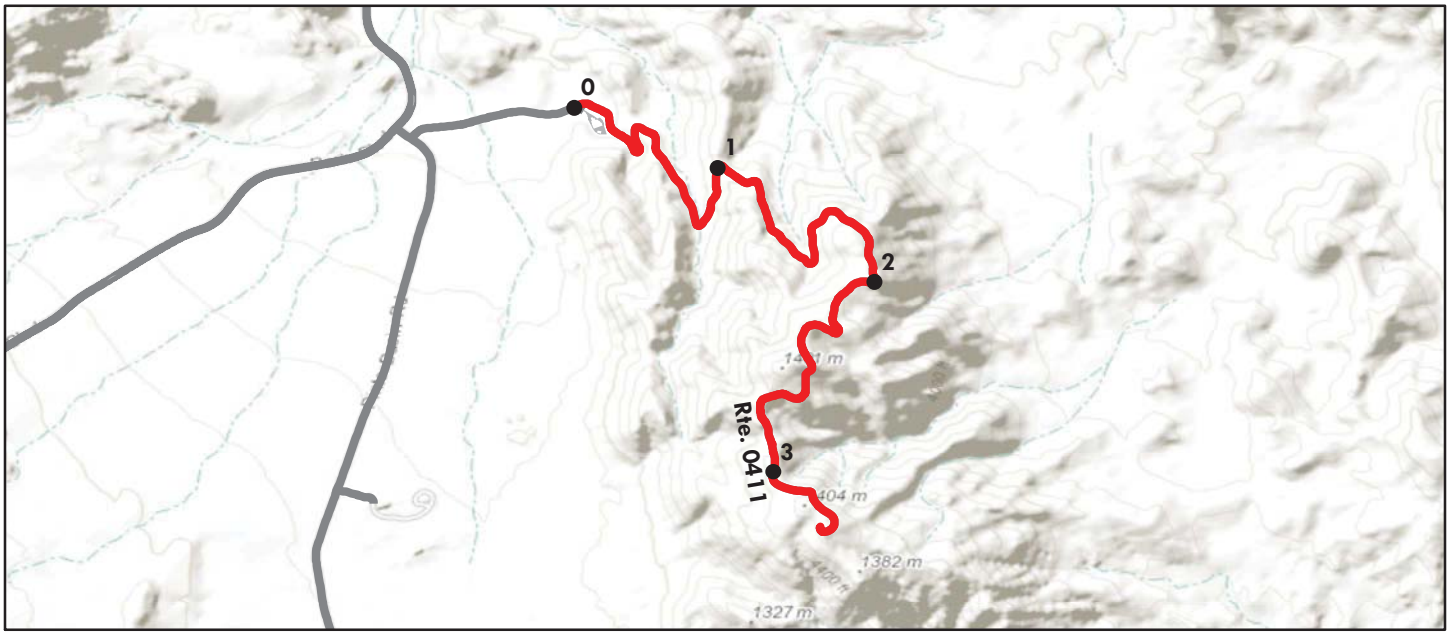
See Appendix for definitions and formulas

Inspection Date: 5/18/2015	**Beginning Section MP**	0				
Paved Length (Miles): 0.15	**Section Length (MI)**	0.15				
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	88	88				
Surface Condition Rating (SCR)	88	88				
Roughness Condition Index (RCI)	N/A	N/A				
Distress Index Values						
Structural Crack Index	88	88				
Alligator Crack Index	100	100				
Longitudinal Crack Index	88	88				
Transverse Cracking Index	88	88				
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)	20.2	20.2				
Lane Width (ft)	10.1	10.1				

Joshua Tree National Park

ROUTE 0411: BELLE MOUNTAIN ROAD

Data Collection Vehicle (DCV) Rating



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, 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: 5/18/2015	**Beginning Section MP**	0	1	2	3	
Paved Length (Miles): 3.35	**Section Length (MI)**	1	1	1	0.35	
Surface Type: ASPHALT	**Route Summary**					
Roadway Condition Information						
Pavement Condition Rating (PCR)	0	0	0	0	0	
Surface Condition Rating (SCR)	0	N/A	N/A	N/A	N/A	
Roughness Condition Index (RCI)	N/A	N/A	N/A	N/A	N/A	
Distress Index Values						
Structural Crack Index	0	N/A	N/A	N/A	N/A	
Alligator Crack Index	0	N/A	N/A	N/A	N/A	
Longitudinal Crack Index	0	N/A	N/A	N/A	N/A	
Transverse Cracking Index	50	N/A	N/A	N/A	N/A	
Patching Index	100	N/A	N/A	N/A	N/A	
Rutting Index	78	N/A	N/A	N/A	N/A	
International Roughness Index (IRI)	N/A	N/A	N/A	N/A	N/A	
Lane & Width Information						
Number of Lanes	1	1	1	1	1	
Paved Width (ft)	13.9	14.1	14.1	13.6	13.6	
Lane Width (ft)	13.9	14.1	14.1	13.6	13.6	

Route 0411 is in a state of disrepair and has numerous portions where the surface condition has deteriorated to the point where individual distresses could not be identified with the vehicles sensors. These portions appear unpaved and their distress indices are listed as N/A in the report but would be categorized in the poor condition. The route summary distress indices are only for the paved sections.

Section 6
Paved Parking Area Condition Rating Sheets

Joshua Tree National Park

Federal Lands Highway
Road Inventory Program

Joshua Tree National Park

ROUTE 0900: VISITOR CENTER/OASIS OF MARA PARKING

Manual Rating

FROM ROUTE 5004 (UTAH TRAIL)

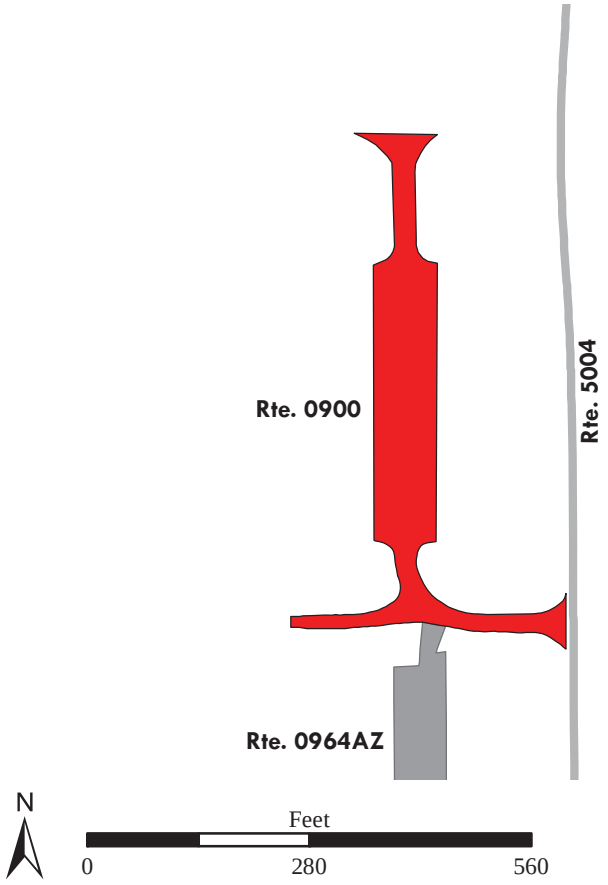
TO NATIONAL PARK DRIVE

Inspection Date	FMSS Number	User Access	Surface Type
2/25/2015	16909	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
36,786	0.633	NOT APPLICABLE	DO NOTHING
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



Joshua Tree National Park

ROUTE 0901: PINTO WYE PARKING

Manual Rating

FROM END OF ROUTE 0400 (PINTO WYE ROAD)

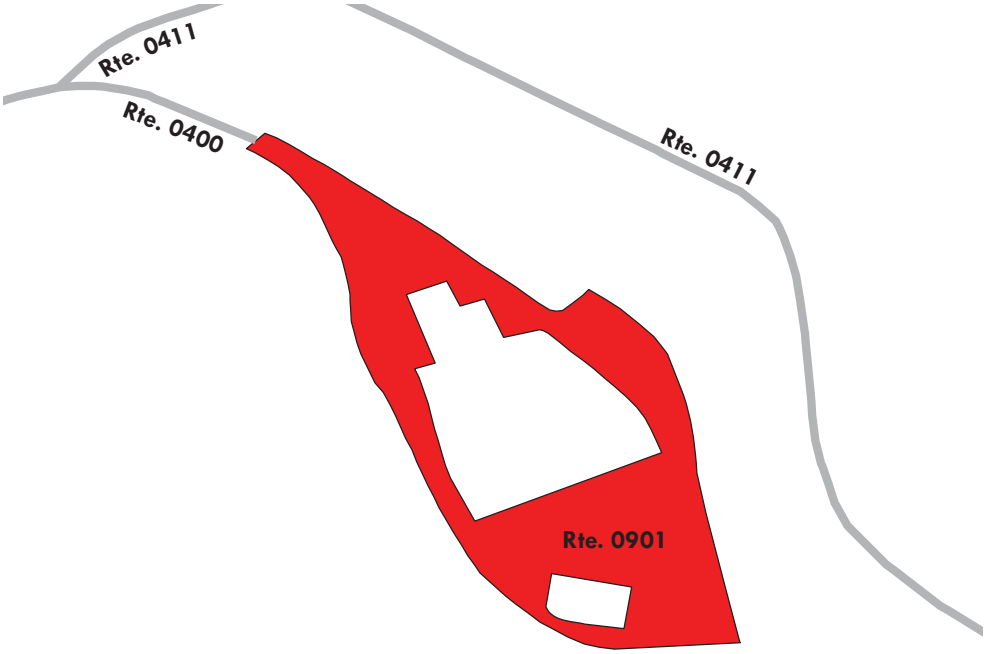
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	19469	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
42,892	0.738	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



Joshua Tree National Park

ROUTE 0902: TWIN TANKS BACKCOUNTRY PARKING

Manual Rating

FROM ROUTE 0011 (PINTO BASIN ROAD) AT MP 2.21 ON RIGHT

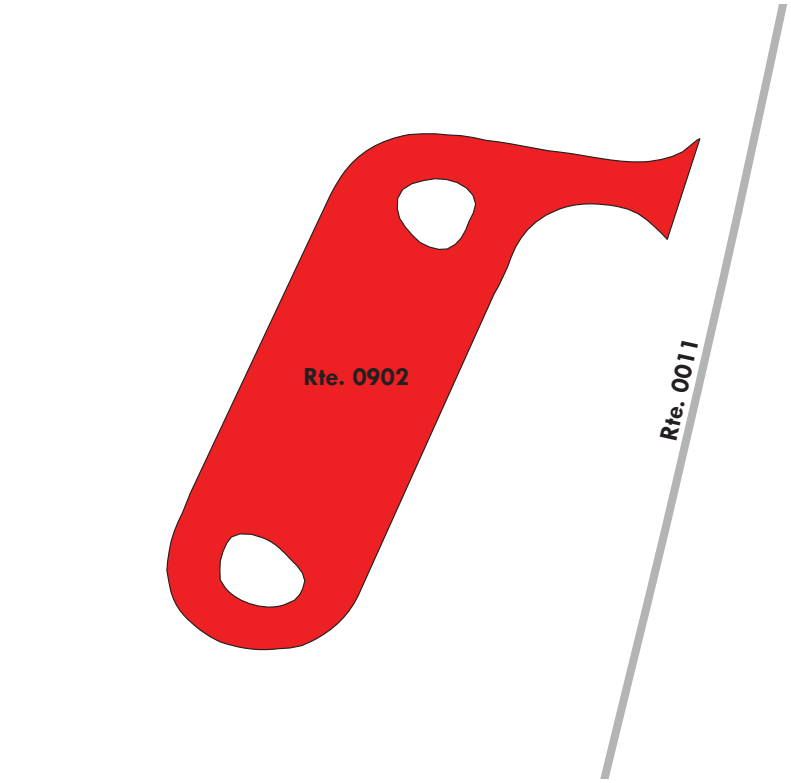
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	38993	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
23,562	0.406	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



Joshua Tree National Park

ROUTE 0903: STIRRUP TANK PARKING

Manual Rating

FROM ROUTE 0011 (PINTO BASIN ROAD) AT MP 3.11 ON RIGHT

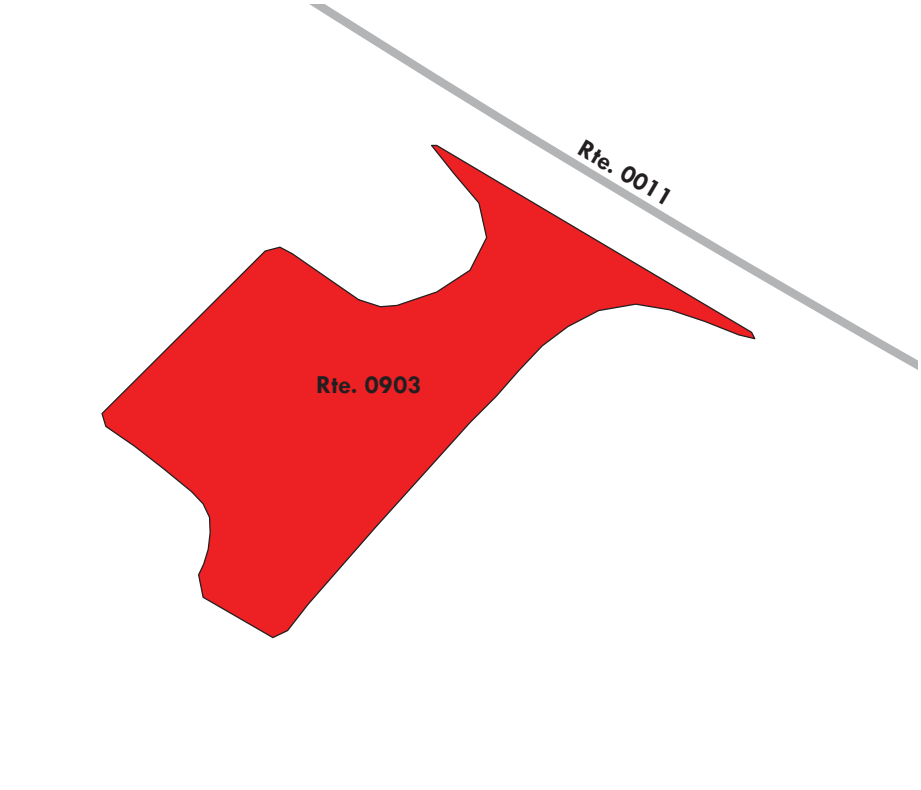
TO ROUTE 0222 (STIRRUP TANK ROAD)

Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	38994	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
6,267	0.108	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



Joshua Tree National Park

ROUTE 0904: COTTONWOOD VISITOR CENTER

Manual Rating

FROM ROUTE 0011 (PINTO BASIN ROAD) AT MP 29.21 ON LEFT

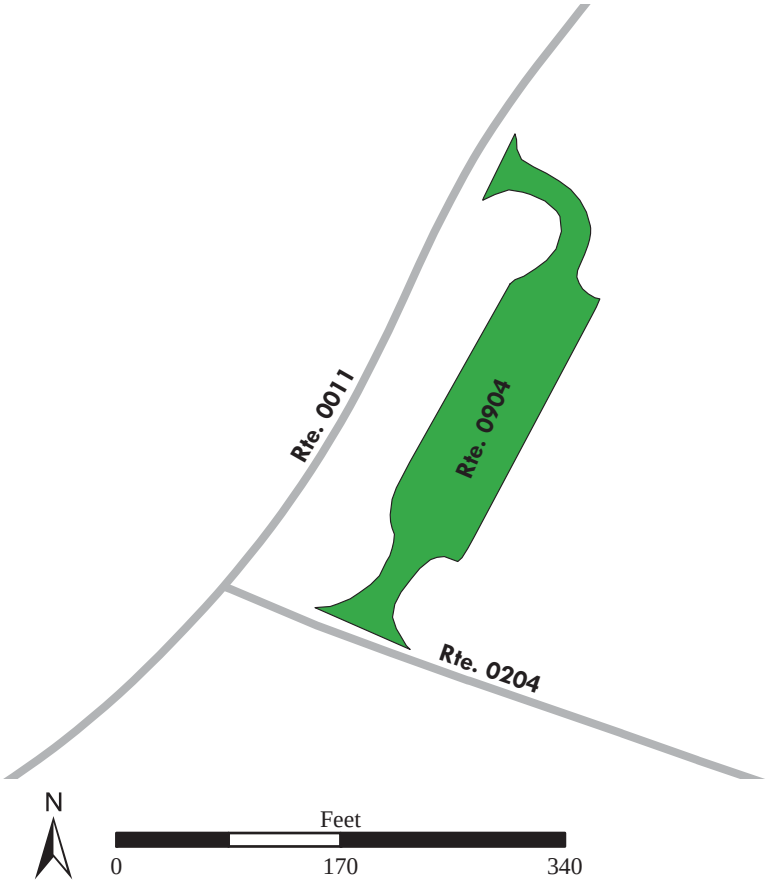
TO ROUTE 0204 (COTTONWOOD SPRINGS CAMPGROUND AND TRAILHEAD)

Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	38995	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
17,080	0.294	6	DO NOTHING
Curb Type		**Curb & Gutter Type**	
CONCRETE		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



Joshua Tree National Park

ROUTE 0905: COTTONWOOD MAINTENANCE YARD PARKING

Manual Rating

FROM ROUTE 0406 (COTTONWOOD RESIDENTIAL ROAD)

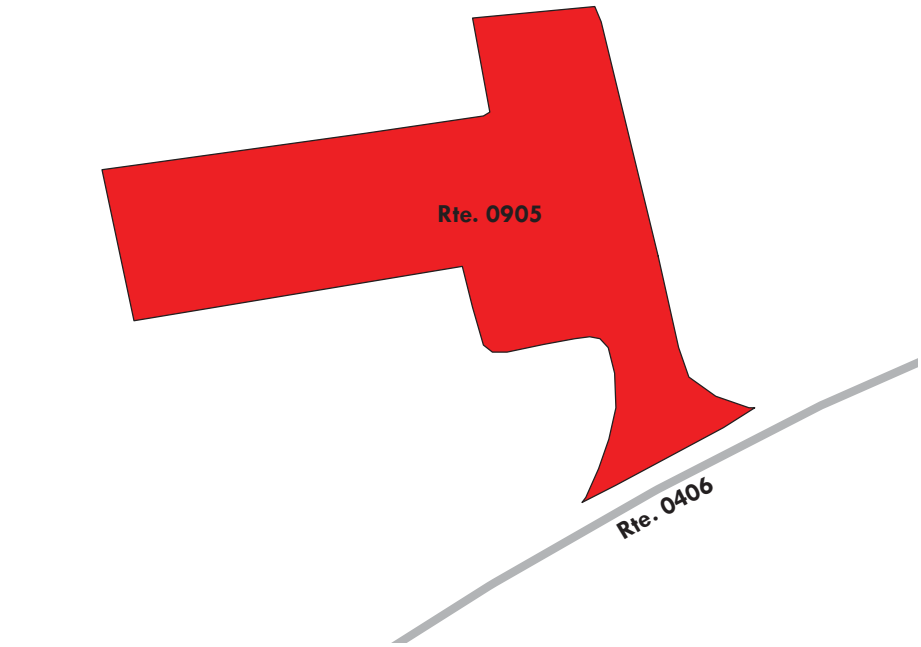
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	16801	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
10,055	0.173	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



Joshua Tree National Park

ROUTE 0906: COTTONWOOD DUMP STATION

Manual Rating

FROM ROUTE 0204 (COTTONWOOD SPRINGS CAMPGROUND AND TRAILHEAD)

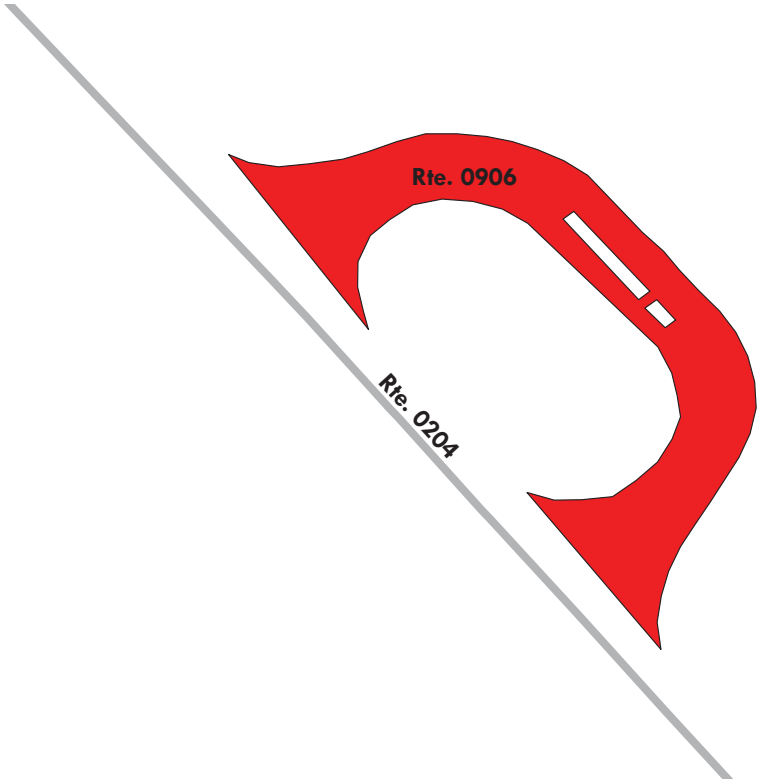
TO ROUTE 0204 (COTTONWOOD SPRINGS CAMPGROUND AND TRAILHEAD)

Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	38997	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
8,788	0.151	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



Joshua Tree National Park

ROUTE 0907A: COTTONWOOD CAMPGROUND PARKING A

Manual Rating

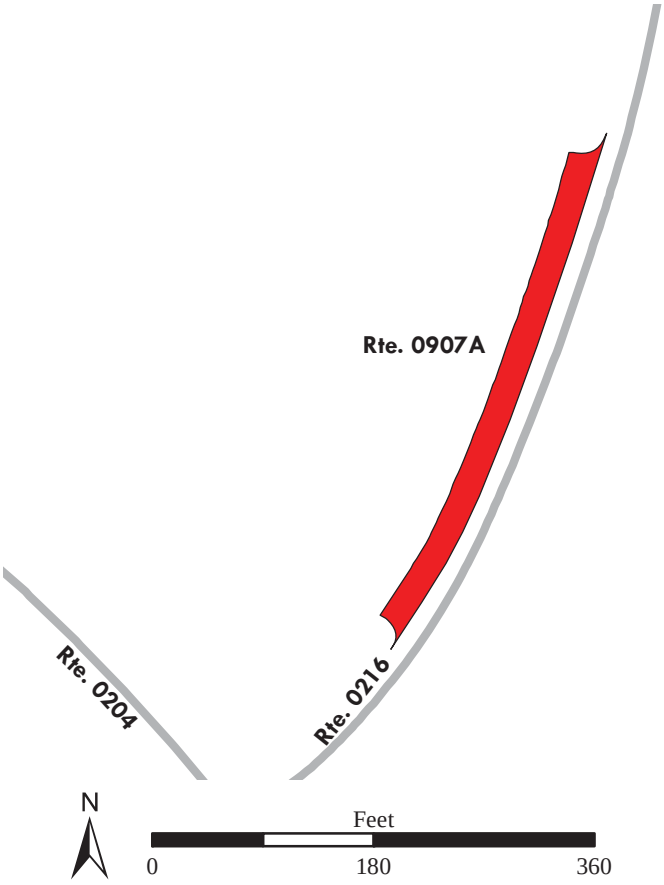
ADJACENT TO ROUTE 0216 (COTTONWOOD CAMPGROUND ENTRANCE ROAD) AT MP 0.06 (ON LEFT)

Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	98211	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
8,024	0.138	NOT APPLICABLE	DO NOTHING
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



Joshua Tree National Park

ROUTE 0907B: COTTONWOOD CAMPGROUND PARKING B

Manual Rating

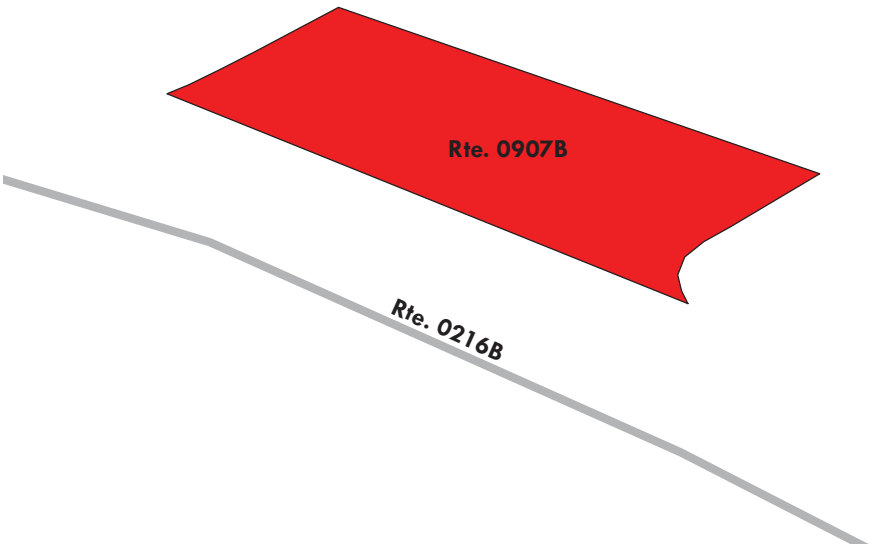
ADJACENT TO ROUTE 0216B (COTTONWOOD CAMPGROUND LOOP B) ON LEFT AT MP .31

Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	98212	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
884	0.015	NOT APPLICABLE	DO NOTHING
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



Joshua Tree National Park

ROUTE 0907C: COTTONWOOD CAMPGROUND PARKING C

Manual Rating

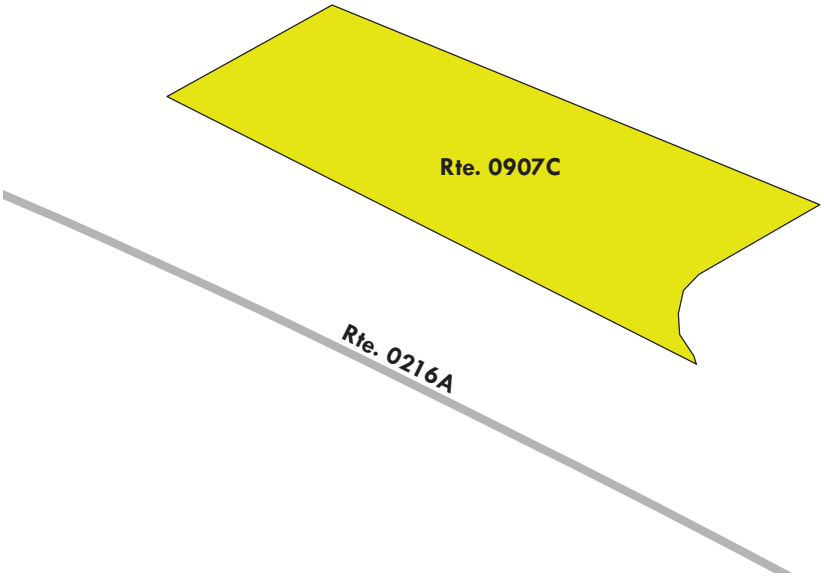
ADJACENT TO ROUTE 0216A (COTTONWOOD CAMPGROUND LOOP A) ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	98213	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
953	0.016	NOT APPLICABLE	DO NOTHING
Curb Type		**Curb & Gutter Type**	
NO CURB		CONCRETE	
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



Joshua Tree National Park

ROUTE 0907D: COTTONWOOD CAMPGROUND PICNIC PARKING D

Manual Rating

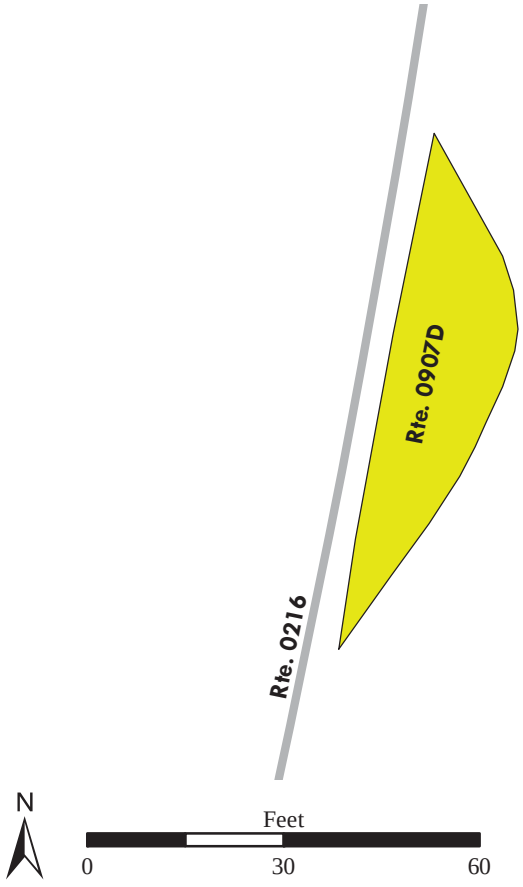
ADJACENT TO ROUTE 0216 (COTTONWOOD CAMPGROUND ENTRANCE ROAD) AT MP 0.09 (ON RIGHT)

Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	98208	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
757	0.013	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



Joshua Tree National Park

ROUTE 0908: COTTONWOOD SPRINGS OASIS PARKING

Manual Rating

FROM END OF ROUTE 0204 (COTTONWOOD SPRINGS CAMPGROUND AND TRAILHEAD)

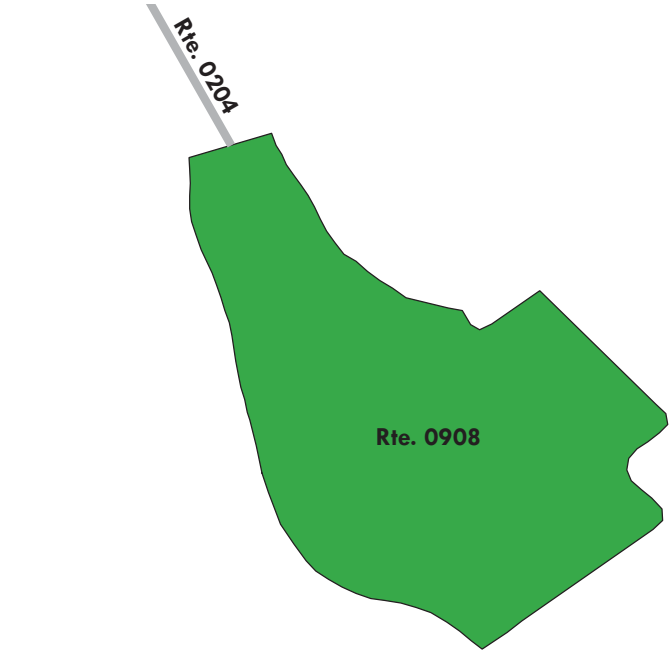
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	38998	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
16,087	0.277	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



Joshua Tree National Park

ROUTE 0909: BAJADA ALL TRAIL PARKING

Manual Rating

FROM ROUTE 0011 (PINTO BASIN ROAD) AT MP 35.07 ON LEFT

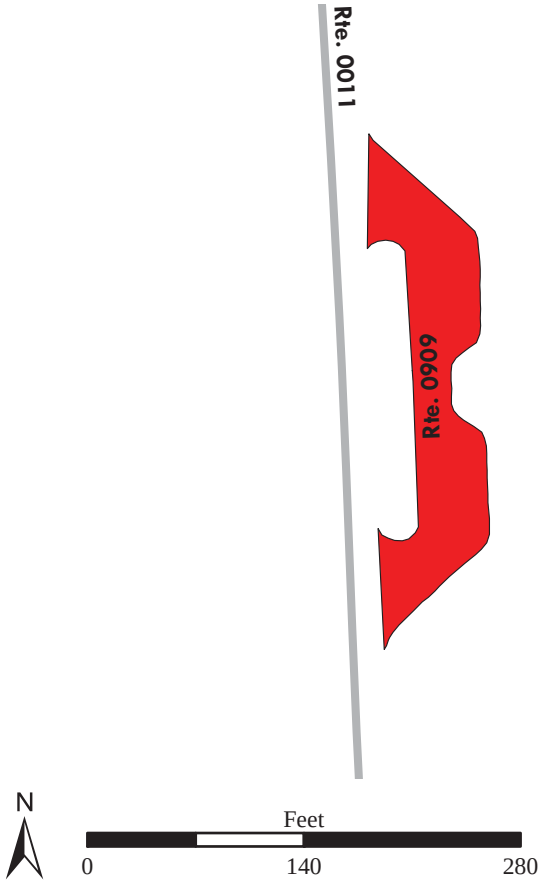
TO ROUTE 0011 (PINTO BASIN ROAD) AT MP 35.11 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	38999	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
10,748	0.185	NOT APPLICABLE	DO NOTHING
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



Joshua Tree National Park

ROUTE 0911: OYSTER BAR TRAILHEAD PARKING

Manual Rating

FROM ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 14.01 ON LEFT

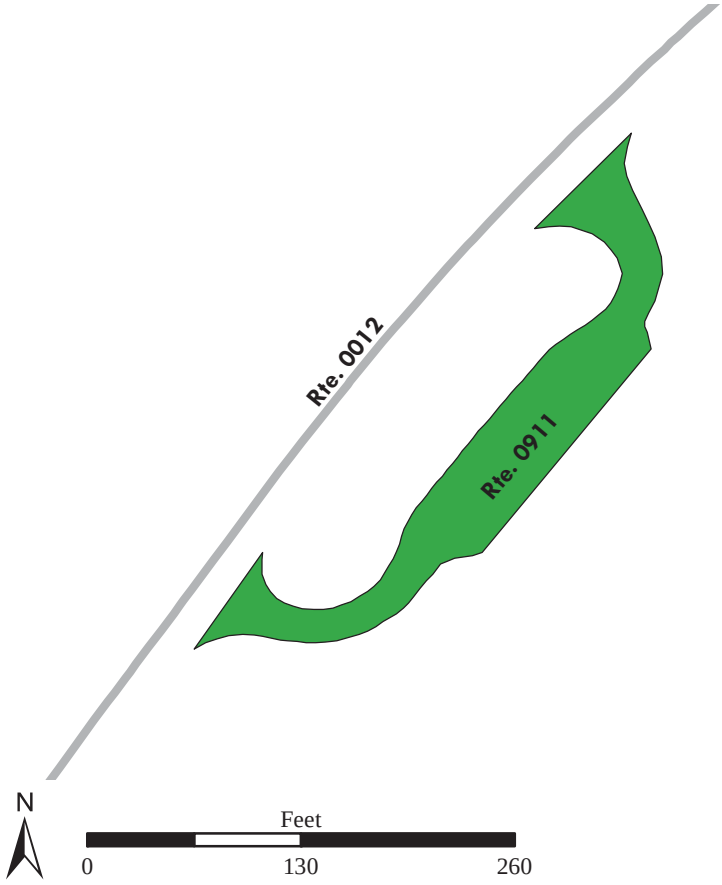
TO ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 14.07 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
2/25/2015	39001	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
12,755	0.22	8	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



Joshua Tree National Park

ROUTE 0912: RYAN MOUNTAIN TRAILHEAD PARKING

Manual Rating

FROM ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 12.84 ON LEFT

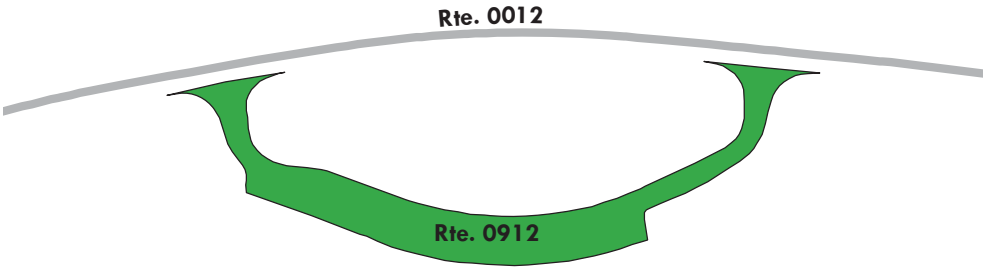
TO ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 12.95 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
2/25/2015	19493	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
33,875	0.583	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



Joshua Tree National Park

ROUTE 0913: QUAIL SPRINGS PARKING AREA

Manual Rating

FROM ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 19.55 ON LEFT

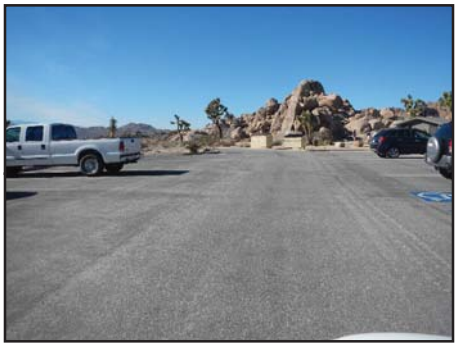
TO ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 19.60 ON LEFT

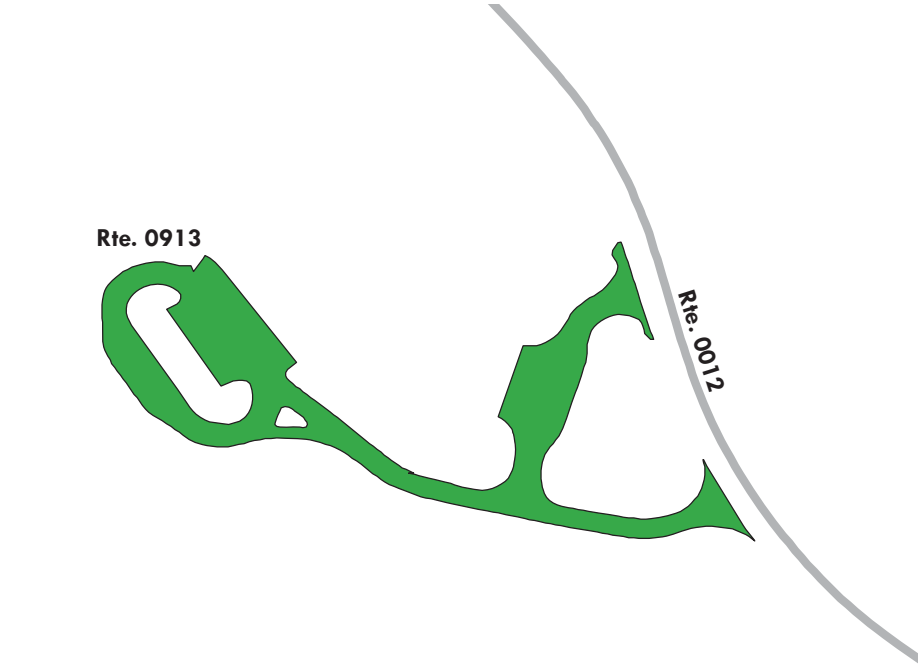
Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	39002	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
41,172	0.709	6	DO NOTHING
Curb Type		**Curb & Gutter Type**	
CONCRETE		NO CURB AND GUTTER	
Pavement Recommendation		**Condition 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





Joshua Tree National Park

ROUTE 0914: WEST ENTRANCE STATION

Manual Rating

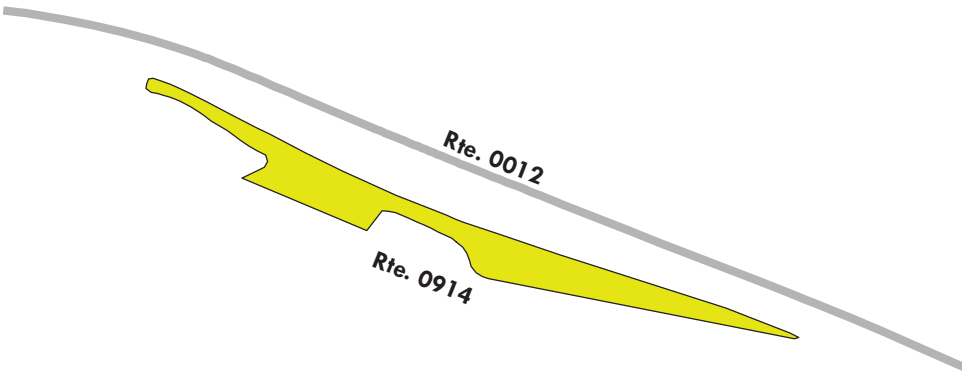
ADJACENT TO ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 25.41 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	39003	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
7,089	0.122	6	DO NOTHING
Curb Type		**Curb & Gutter Type**	
ASPHALT AND 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



Joshua Tree National Park

ROUTE 0915A: KEYS VIEW PARKING A

Manual Rating

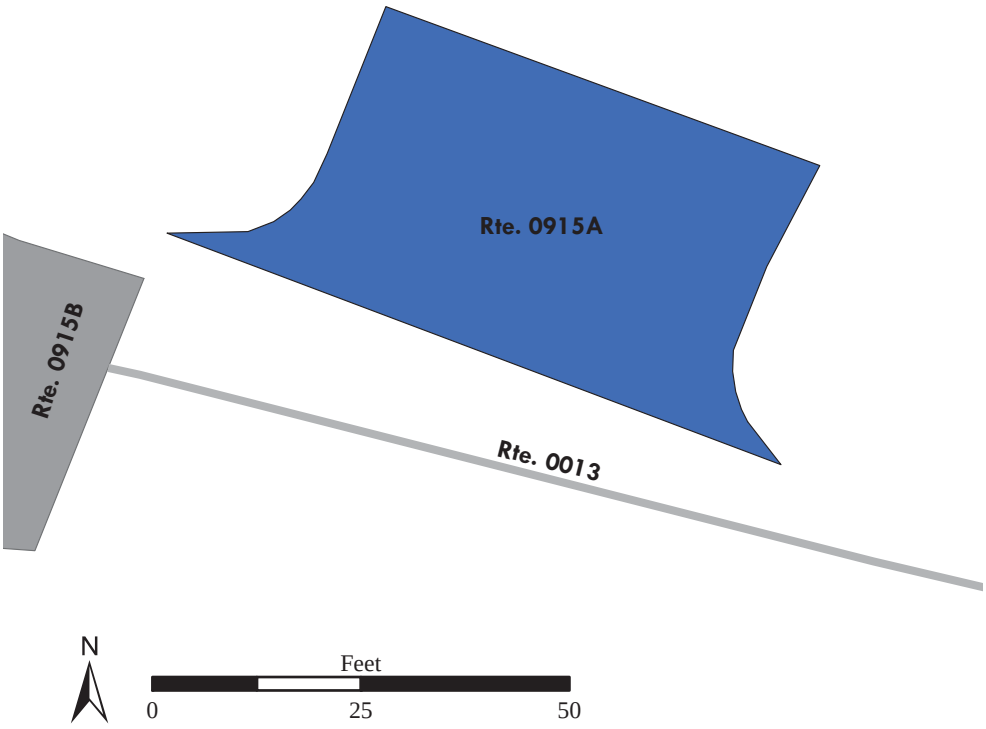
ADJACENT TO ROUTE 0013 (KEY'S VIEW ROAD) AT MP 5.50 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	231794	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
1,649	0.028	8	DO NOTHING
Curb Type		**Curb & Gutter Type**	
CONCRETE		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



Joshua Tree National Park

ROUTE 0915B: KEYS VIEW PARKING B

Manual Rating

FROM END OF ROUTE 0013 (KEY'S VIEW ROAD)

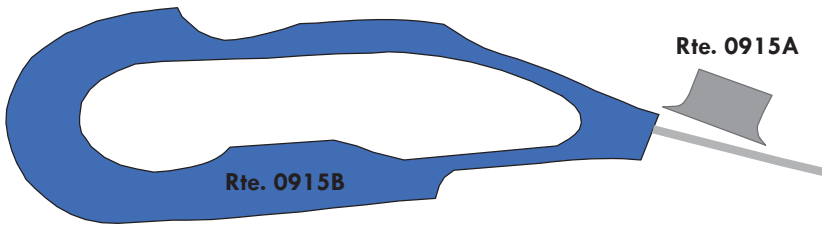
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	55566	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
23,000	0.396	8	DO NOTHING
Curb Type		**Curb & Gutter Type**	
CONCRETE		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



Joshua Tree National Park

ROUTE 0916: INDIAN COVE CONTACT STATION

Manual Rating

FROM ROUTE 0212A (INDIAN COVE CAMPGROUND ROAD A) ON RIGHT

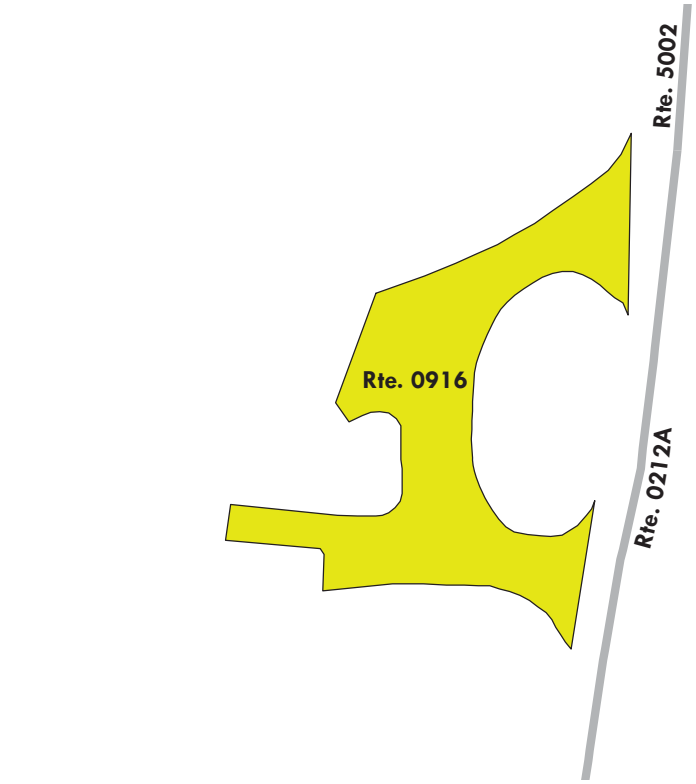
TO ROUTE 0212A (INDIAN COVE CAMPGROUND ROAD A) ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
2/25/2015	39005	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
13,155	0.226	NOT APPLICABLE	DO NOTHING
Curb Type		**Curb & Gutter Type**	
NO CURB		CONCRETE	
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



Joshua Tree National Park

ROUTE 0917: 49 PALMS OASIS PARKING

Manual Rating

FROM END OF ROUTE 0213 (49 PALMS OASIS ACCESS ROAD)

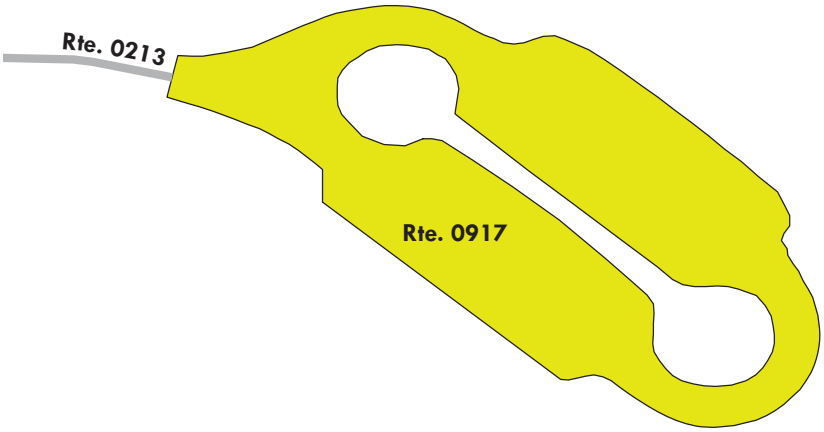
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
2/25/2015	19730	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
23,513	0.405	8	DO NOTHING
Curb Type		**Curb & Gutter Type**	
ASPHALT		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



Joshua Tree National Park

ROUTE 0918: HIDDEN VALLEY PICNIC PARKING

Manual Rating

FROM ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 16.67 ON LEFT

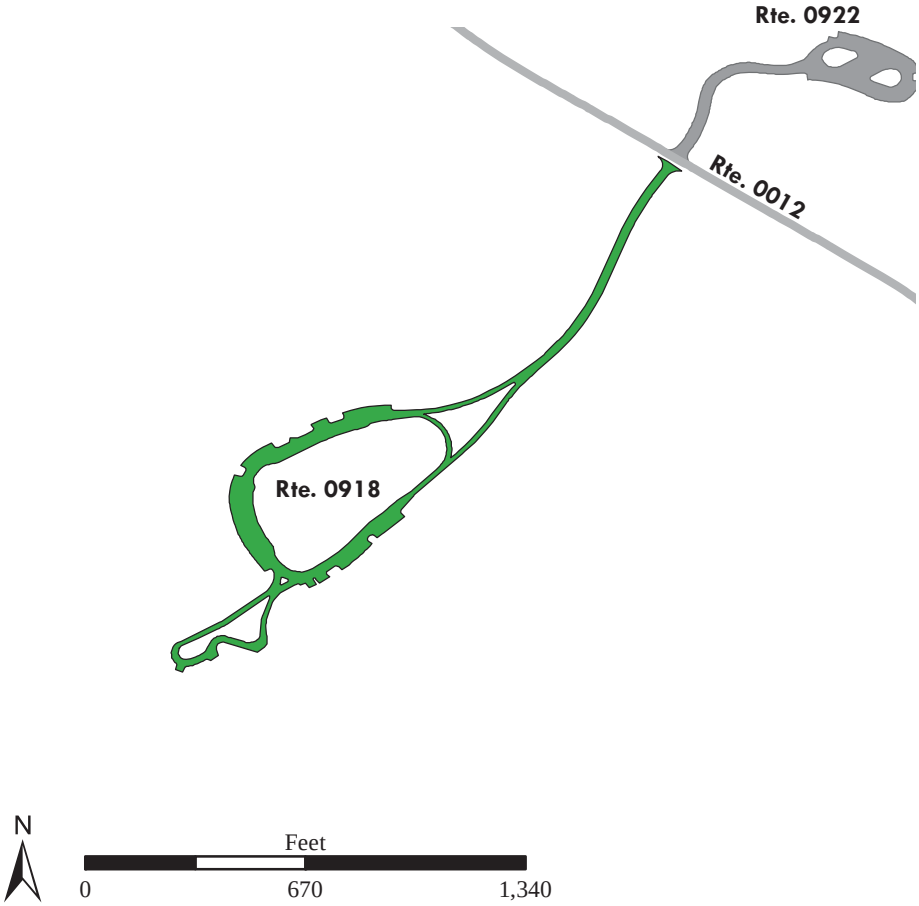
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
2/25/2015	39006	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
101,532	1.748	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



Joshua Tree National Park

ROUTE 0919: NORTH ENTRANCE CONTACT STATION PARKING

Manual Rating

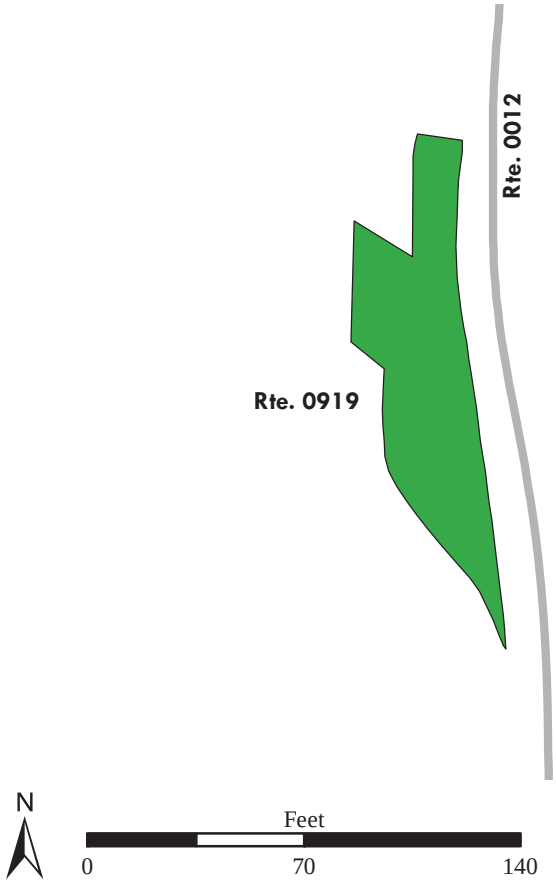
ADJACENT TO ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 0.12 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
2/25/2015	98214	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
3,117	0.054	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



Joshua Tree National Park

ROUTE 0920: MOJAVE PLANTS PARKING

Manual Rating

FROM ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 15.15 ON LEFT

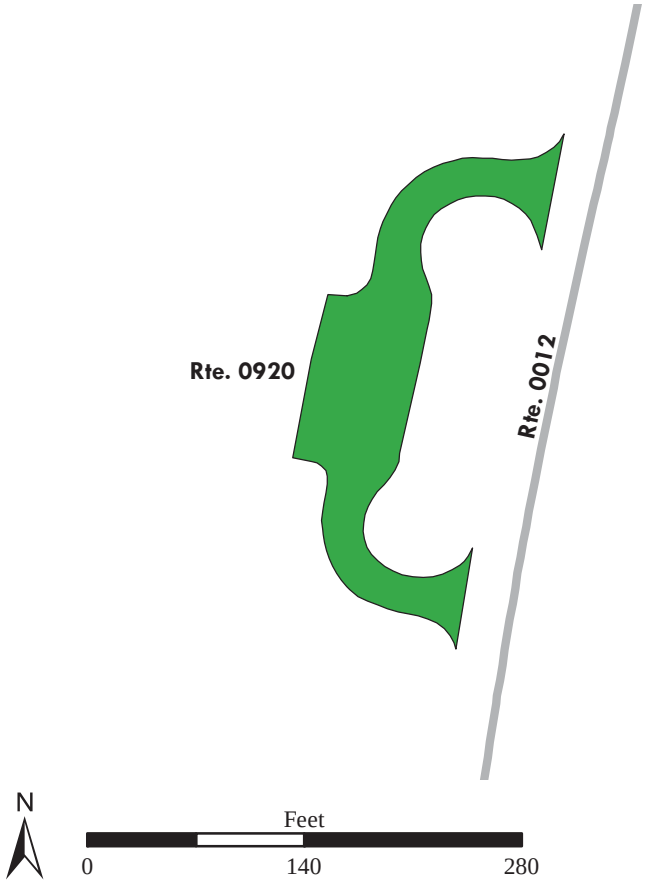
TO ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 15.20 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
2/25/2015	57151	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
13,748	0.237	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



Joshua Tree National Park

ROUTE 0921: HEMMINGWAY PARKING

Manual Rating

FROM ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 17.63 ON LEFT

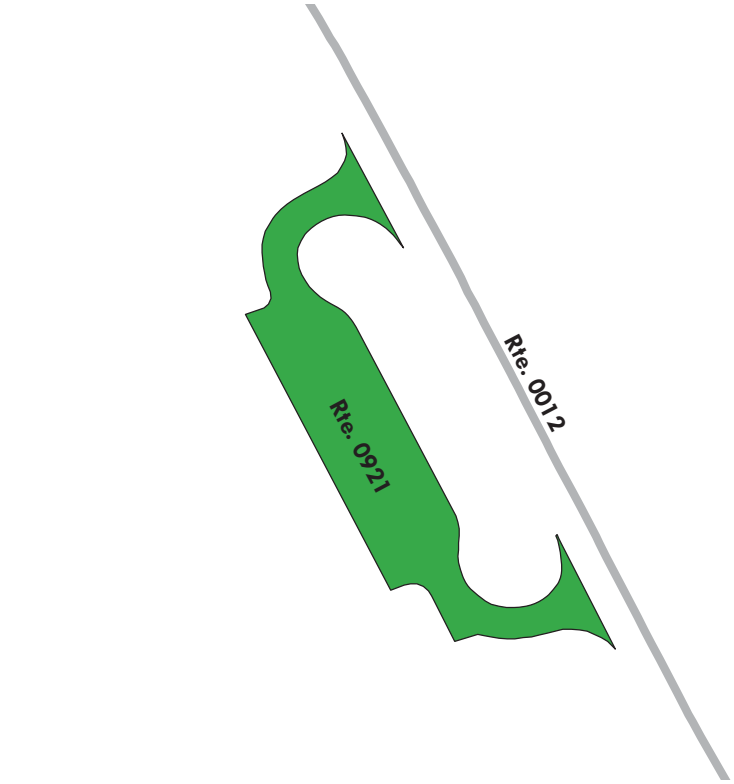
TO ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 17.69 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	16847	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
17,941	0.309	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



Joshua Tree National Park

ROUTE 0922: INTERSECTION ROCK PARKING

Manual Rating

FROM ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 16.65 ON RIGHT

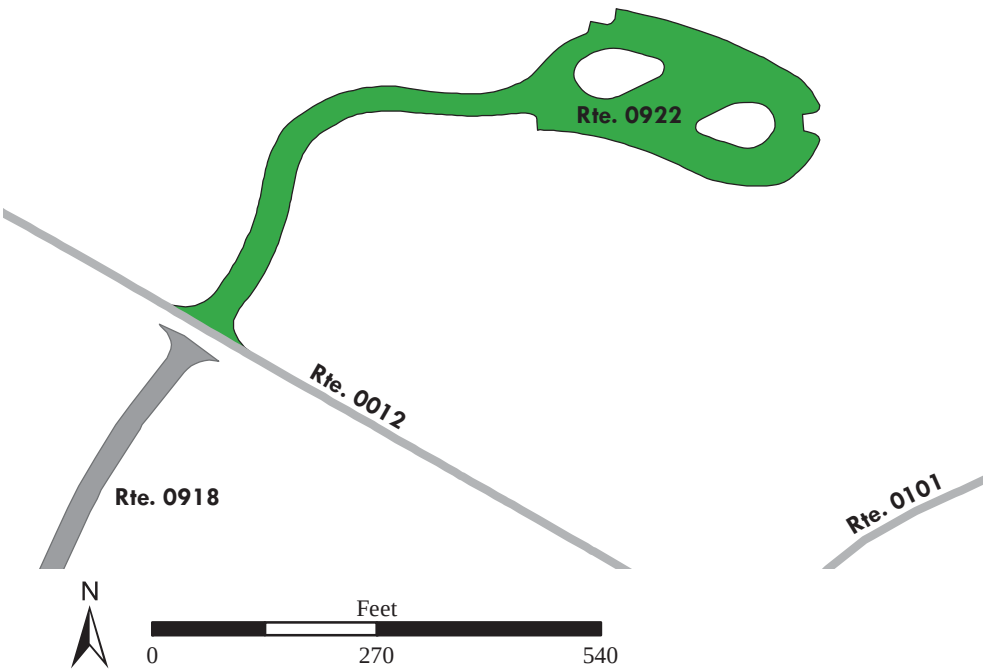
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
2/25/2015	39012	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
48,820	0.841	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



Joshua Tree National Park

ROUTE 0923: BARKER DAM PARKING

Manual Rating

FROM END OF ROUTE 0101 (BARKER DAM ROAD)

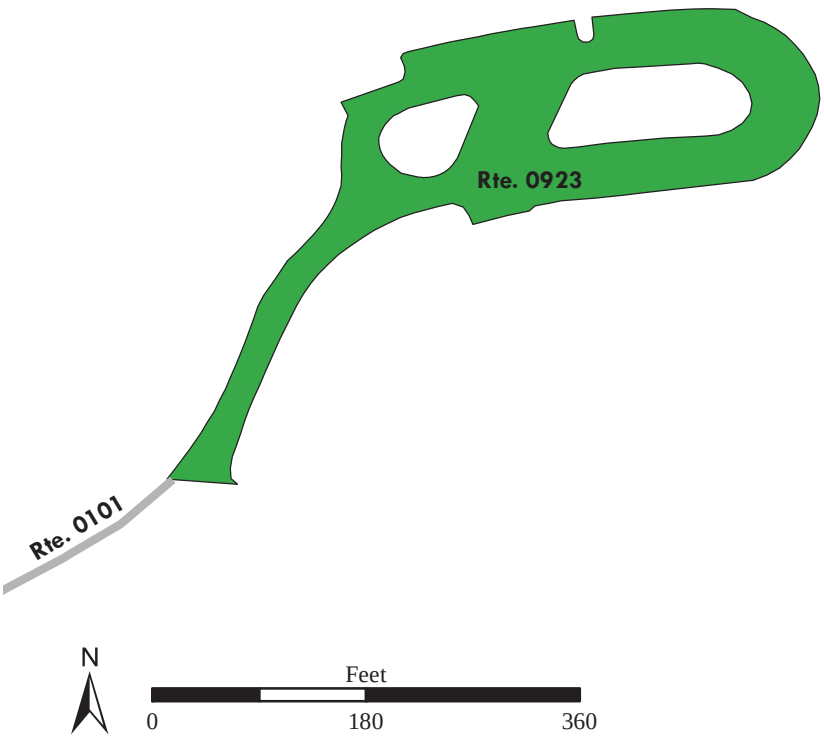
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
2/25/2015	19904	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
40,595	0.699	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



Joshua Tree National Park

ROUTE 0925: BLACK ROCK CAMPGROUND DUMPSTATION

Manual Rating

FROM ROUTE 0214ZZ (BLACK ROCK CAMPGROUND ROADS)

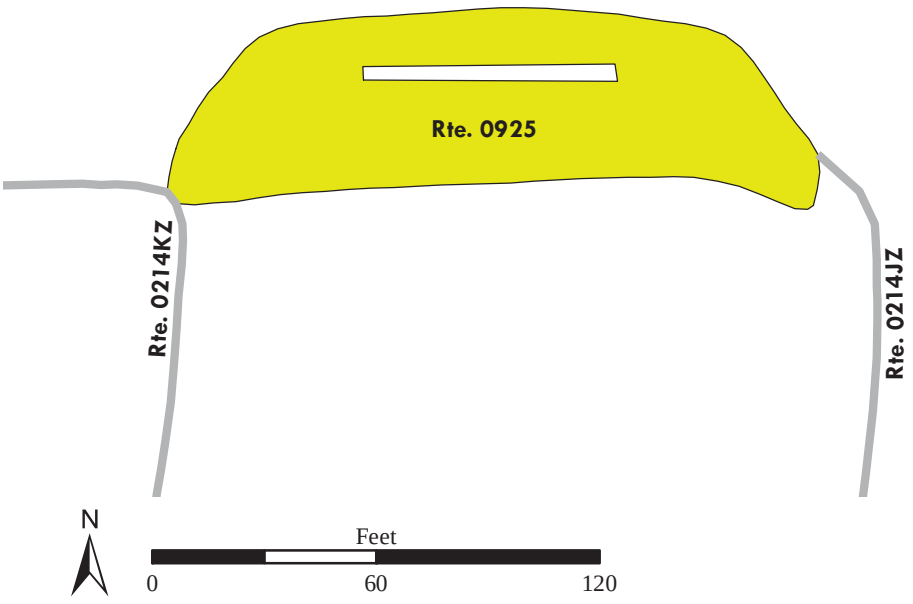
TO ROUTE 0214ZZ (BLACK ROCK CAMPGROUND ROADS))

Inspection Date	FMSS Number	User Access	Surface Type
2/25/2015	98215	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
5,609	0.097	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



Joshua Tree National Park

ROUTE 0926: BLACK ROCK NATURE CENTER PARKING

Manual Rating

FROM ROUTE 0214ZZ (BLACK ROCK CAMPGROUND ROADS)

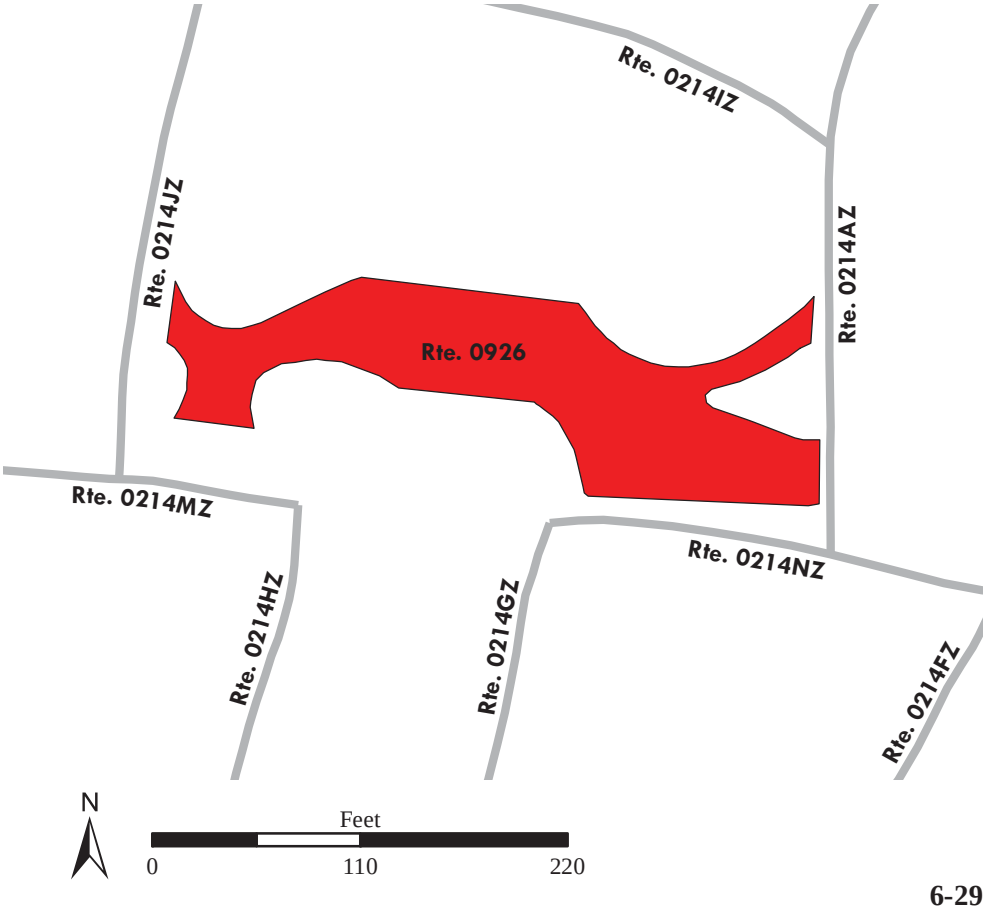
TO ROUTE 0214ZZ (BLACK ROCK CAMPGROUND ROADS))

Inspection Date	FMSS Number	User Access	Surface Type
2/25/2015	98216	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
16,073	0.277	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



Joshua Tree National Park

ROUTE 0936: CHOLLA CACTUS GARDEN PARKING

Manual Rating

FROM ROUTE 0011 (PINTO BASIN ROAD) AT MP 9.85 ON RIGHT

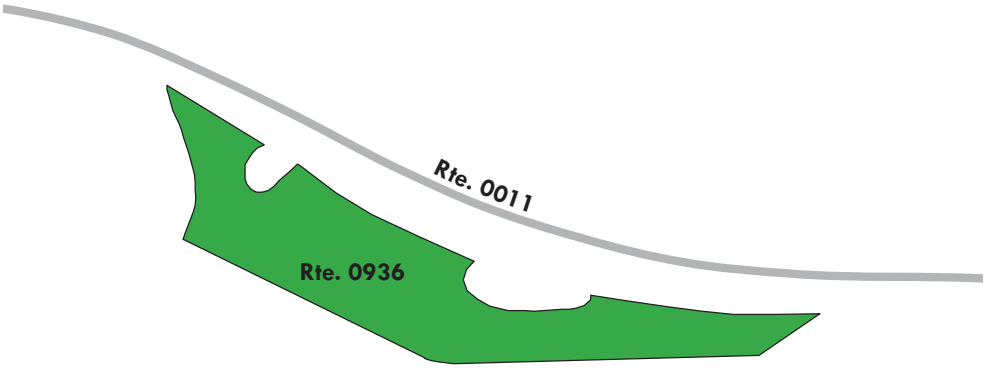
TO ROUTE 0011 (PINTO BASIN ROAD) AT MP 9.91 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	98188	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
14,973	0.258	9	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



Joshua Tree National Park

ROUTE 0937: OCOTILLO PATCH PARKING

Manual Rating

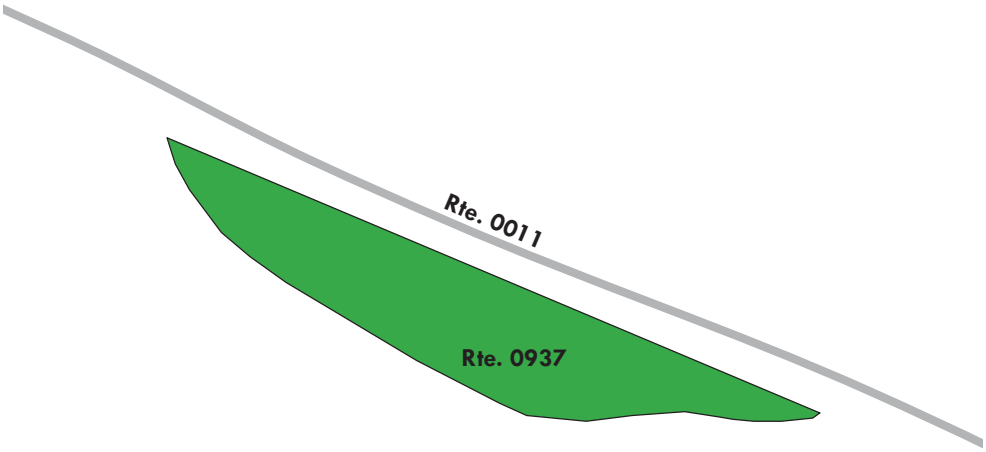
ADJACENT TO ROUTE 0011 (PINTO BASIN ROAD) AT MP 11.32 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	98191	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
7,722	0.133	10	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



Joshua Tree National Park

ROUTE 0938: TURKEY FLATS BACKCOUNTRY BOARD PARKING

Manual Rating

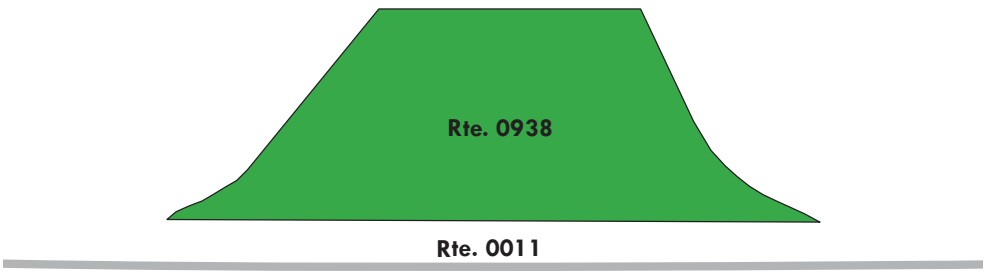
ADJACENT TO ROUTE 0011 (PINTO BASIN ROAD) AT MP 16.27 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	98193	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
8,575	0.148	8	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



Joshua Tree National Park

ROUTE 0939: PORCUPINE WASH BACKCOUNTRY BOARD PARKING

Manual Rating

FROM ROUTE 0011 (PINTO BASIN ROAD) AT MP 21.19 ON RIGHT

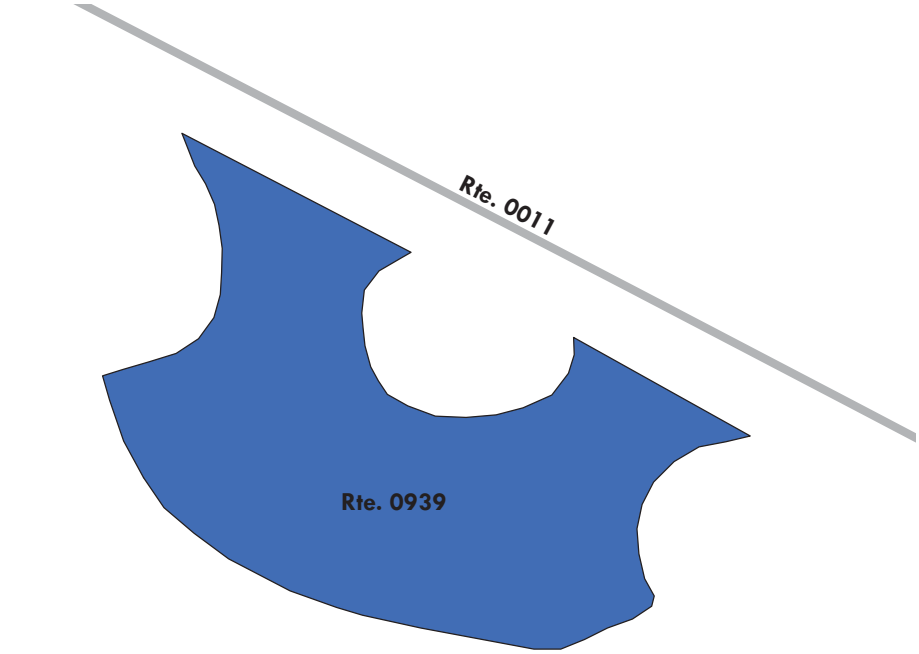
TO ROUTE 0011 (PINTO BASIN ROAD) AT MP 21.20 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	98194	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
4,259	0.073	6	DO NOTHING
Curb Type		**Curb & Gutter Type**	
CONCRETE		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



Joshua Tree National Park

ROUTE 0953: CAP ROCK PARKING

Manual Rating

FROM ROUTE 0013 (KEY'S VIEW ROAD) AT MP 0.20 ON LEFT

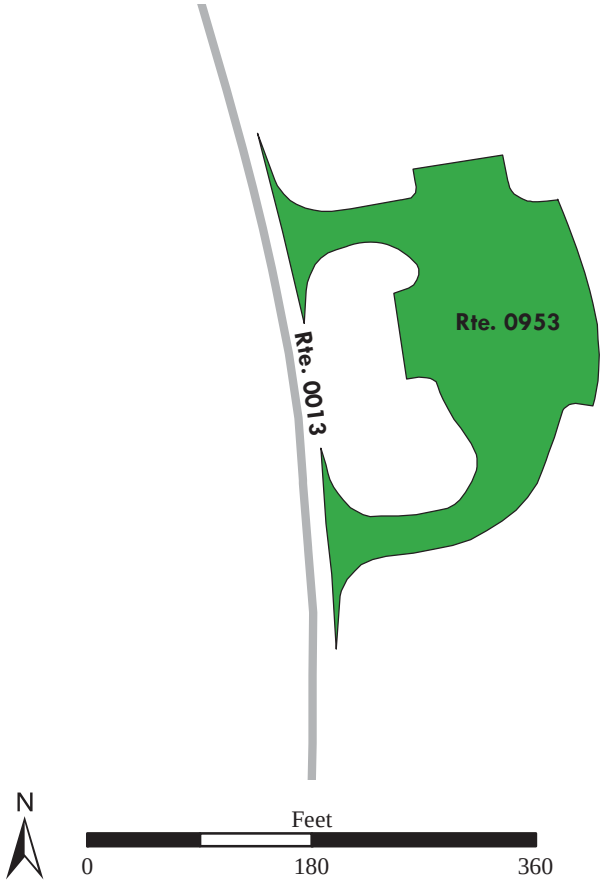
TO ROUTE 0013 (KEY'S VIEW ROAD) AT MP 0.25 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	19898	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
33,688	0.58	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



Joshua Tree National Park

ROUTE 0956: NORTH ENTRANCE SIGN PARKING

Manual Rating

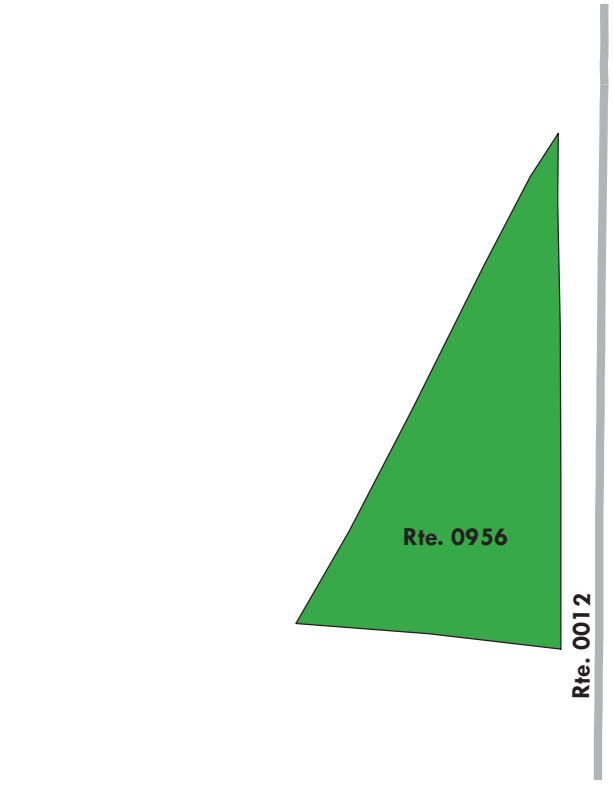
ADJACENT TO ROUTE 0012 (EAST-WEST HIGHWAY)

Inspection Date	FMSS Number	User Access	Surface Type
2/25/2015	98200	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
2,913	0.05	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



Joshua Tree National Park

ROUTE 0957: BARREN OR BOUNTIFUL PARKING

Manual Rating

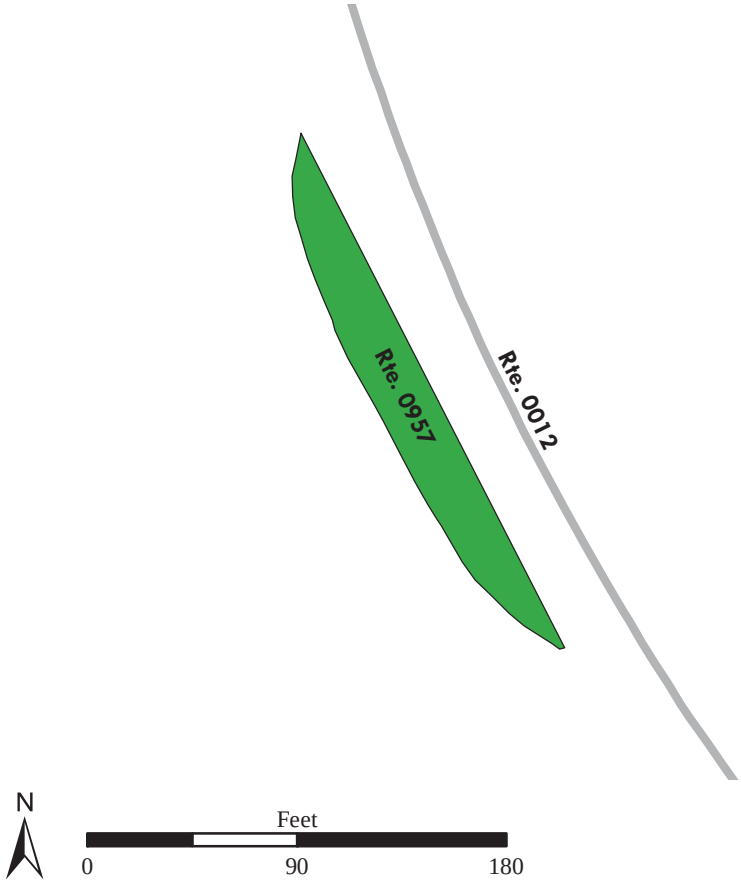
ADJACENT TO ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 23.03 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	232183	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
4,158	0.072	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



Joshua Tree National Park

ROUTE 0958: RYAN RANCH PARKING

Manual Rating

ADJACENT TO ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 14.37

Inspection Date	FMSS Number	User Access	Surface Type
2/25/2015	231788	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
6,292	0.108	8	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

Joshua Tree National Park

ROUTE 0959: HALL OF HORRORS PARKING

Manual Rating

FROM ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 13.48 ON RIGHT

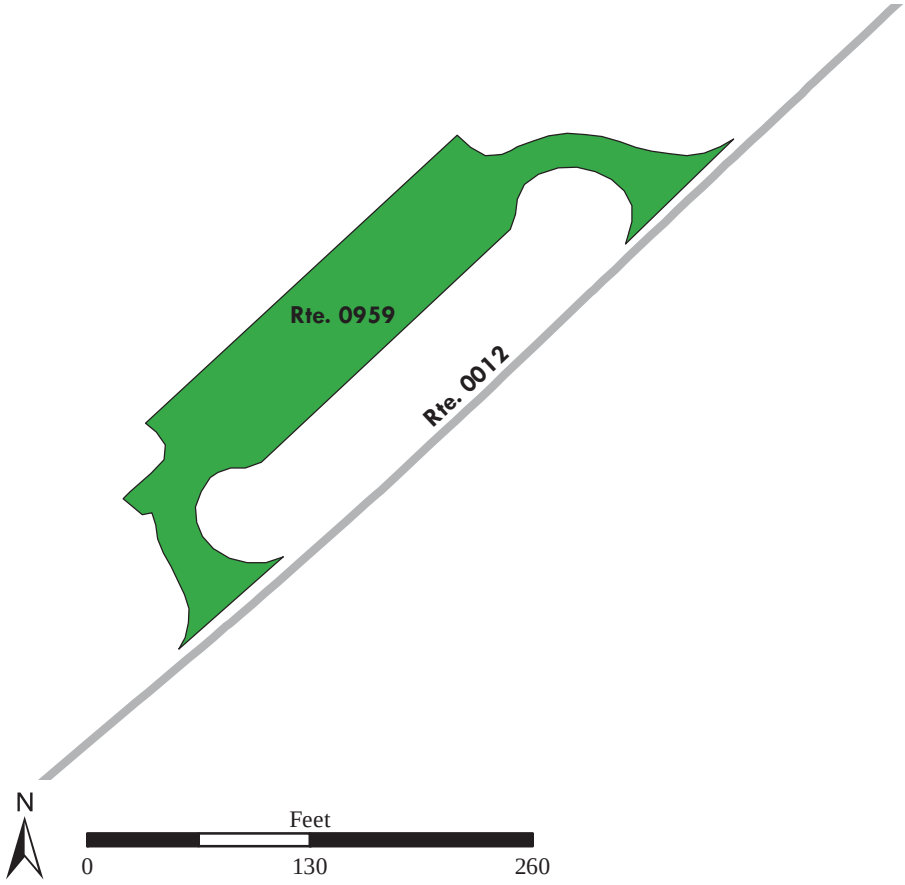
TO ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 13.54 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
2/25/2015	19839	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
17,755	0.306	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



Joshua Tree National Park

ROUTE 0960ZZ: JUMBO ROCKS PARKING AREAS

Summary Route
Manual Rating

FROM ROUTE 0203ZZ (JUMBO ROCKS CAMPGROUND)

TO PARKING

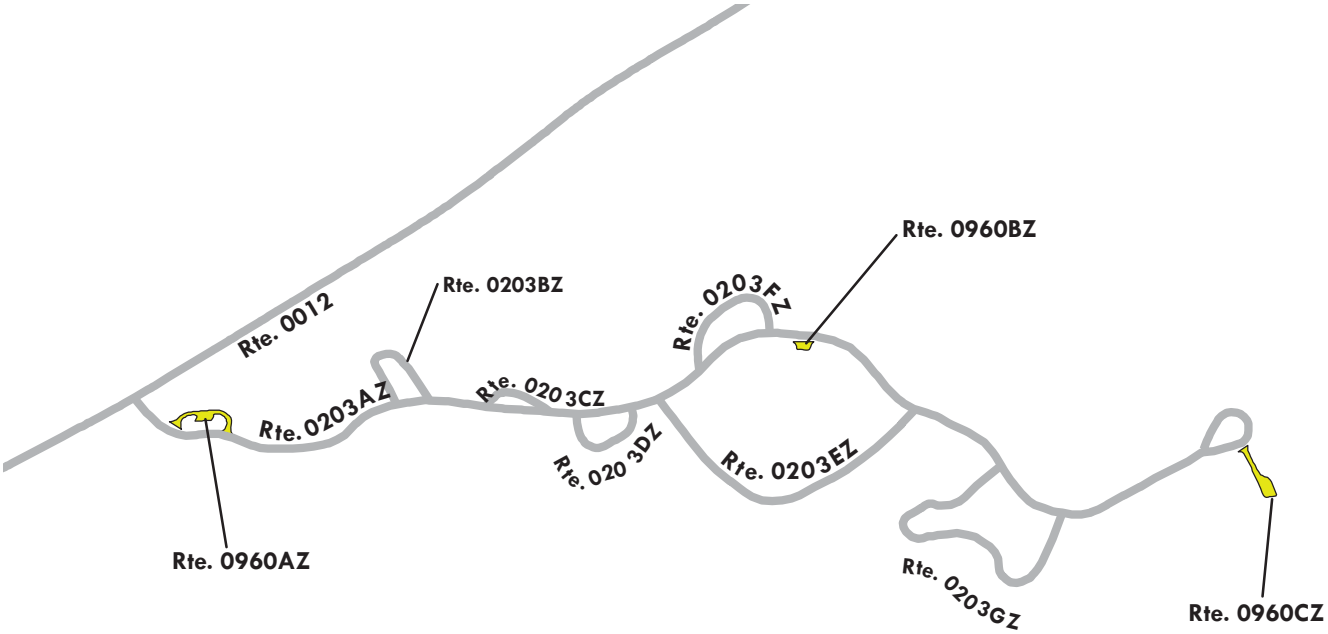
Inspection Date	FMSS Number	User Access	Surface Type
2/25/2015	98224	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Condition Rating / PCR**	
8,862	0.152	SUMMARY / 72	

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.



N

Feet

0 875 1,750

Joshua Tree National Park

ROUTE 0960AZ: JUMBO ROCKS DAY USE PKG

Subcomponent of Route JOTR-0960ZZ
Manual Rating

FROM ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A) AT MP .02

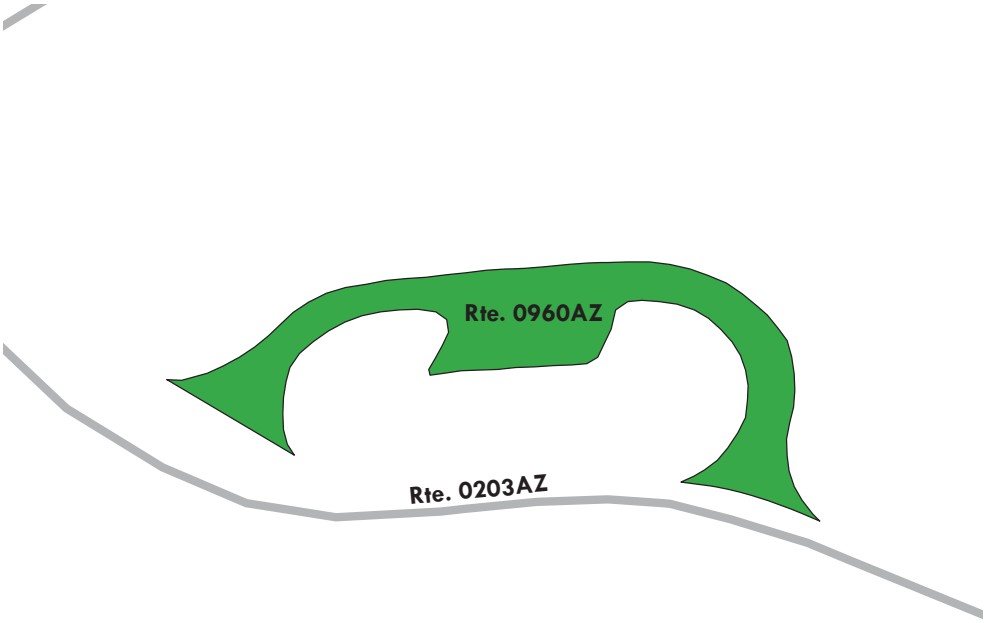
TO ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A) AT MP .05

Inspection Date	FMSS Number	User Access	Surface Type
2/25/2015	98224	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
3,960	0.068	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



Joshua Tree National Park

ROUTE 0960BZ: SKULL ROCK TRAIL AND AMPHITHEATER PARKING

Subcomponent of Route JOTR-0960ZZ
Manual Rating

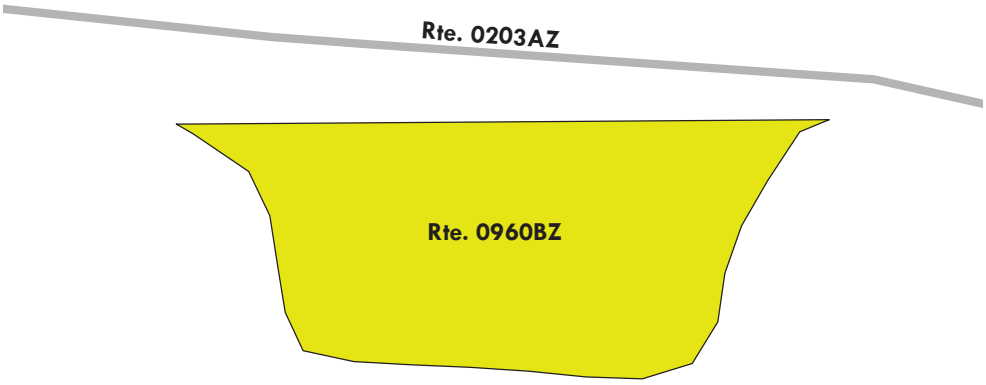
ADJACENT TO ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A) AT MP .38

Inspection Date	FMSS Number	User Access	Surface Type
2/25/2015	98224	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
1,058	0.018	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



Joshua Tree National Park

ROUTE 0960CZ: SITES 72 THROUGH 76 PARKING

Subcomponent of Route JOTR-0960ZZ
Manual Rating

FROM ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A) AT MP .67

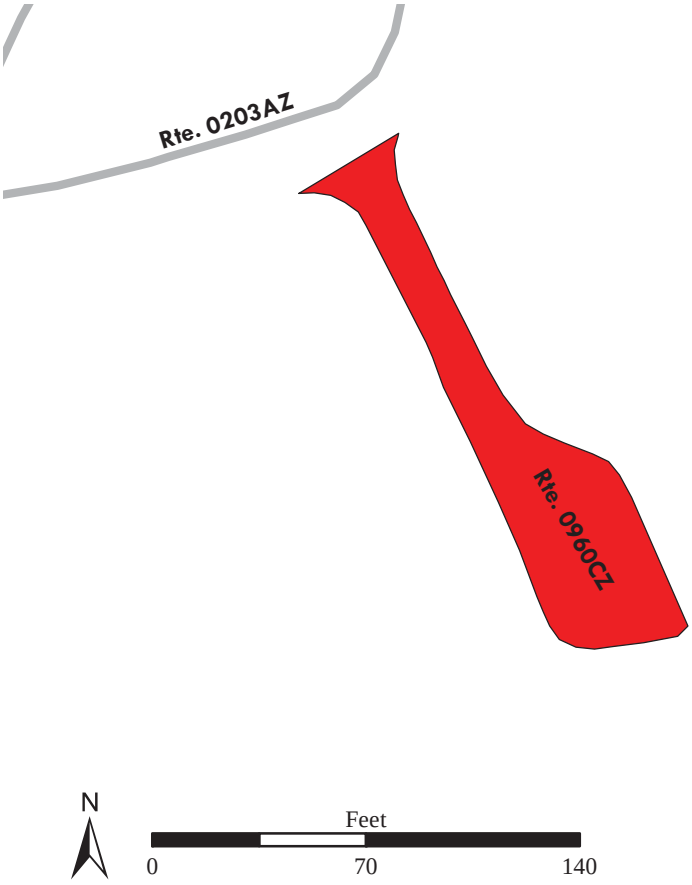
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
2/25/2015	98224	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
3,844	0.066	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



Joshua Tree National Park

ROUTE 0961: KEYS VIEW HANDICAPPED PARKING

Manual Rating

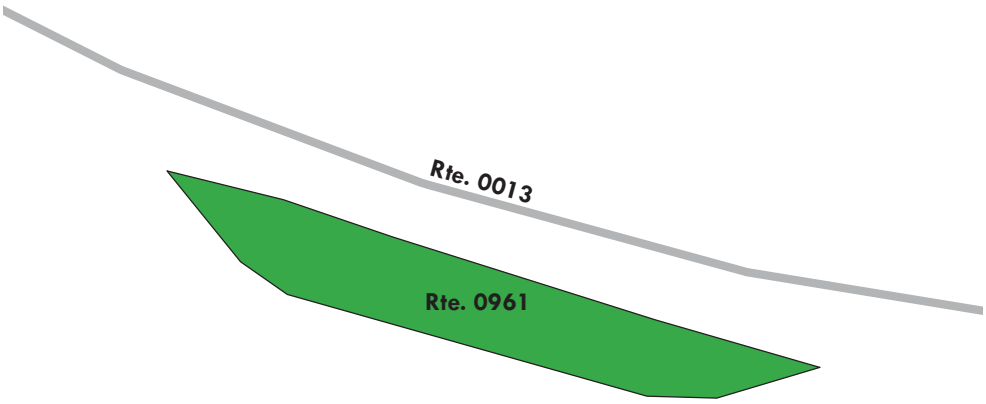
ADJACENT TO ROUTE 0013 (KEY'S VIEW ROAD) AT MP 5.17

Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	231792	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
1,331	0.023	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



Joshua Tree National Park

ROUTE 0964ZZ: HQ EMPLOYEE PARKING AREAS

Summary Route
Manual Rating

FROM ROUTE 0900 (VISITOR CENTER/OASIS OF MARA PARKING)

TO ROUTE 0965 (HQ EMPLOYEE PARKING C)

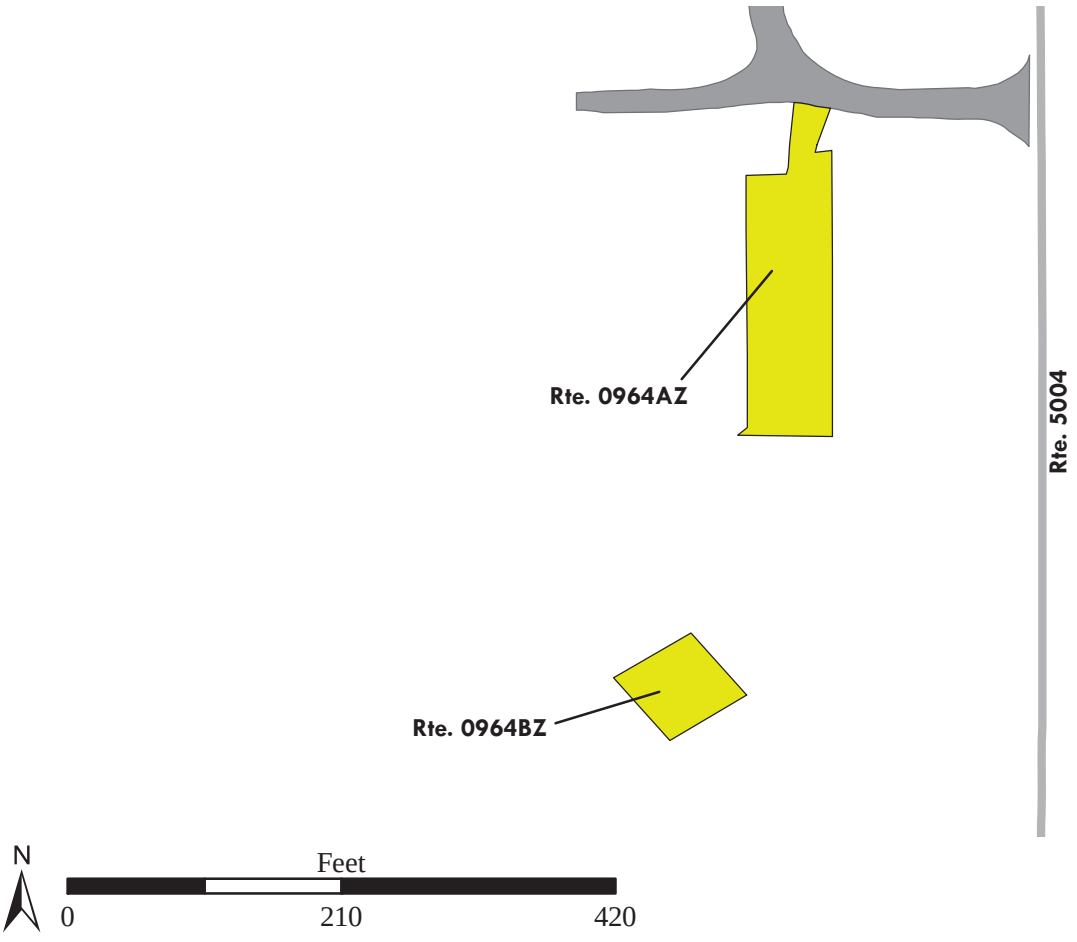
Inspection Date	FMSS Number	User Access	Surface Type
2/25/2015	16819	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Condition Rating / PCR**	
15,698	0.271	SUMMARY / 82	

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.



Joshua Tree National Park

ROUTE 0964AZ: HQ EMPLOYEE PARKING A

Subcomponent of Route JOTR-0964ZZ
Manual Rating

FROM ROUTE 0900 (VISITOR CENTER/OASIS OF MARA PARKING)

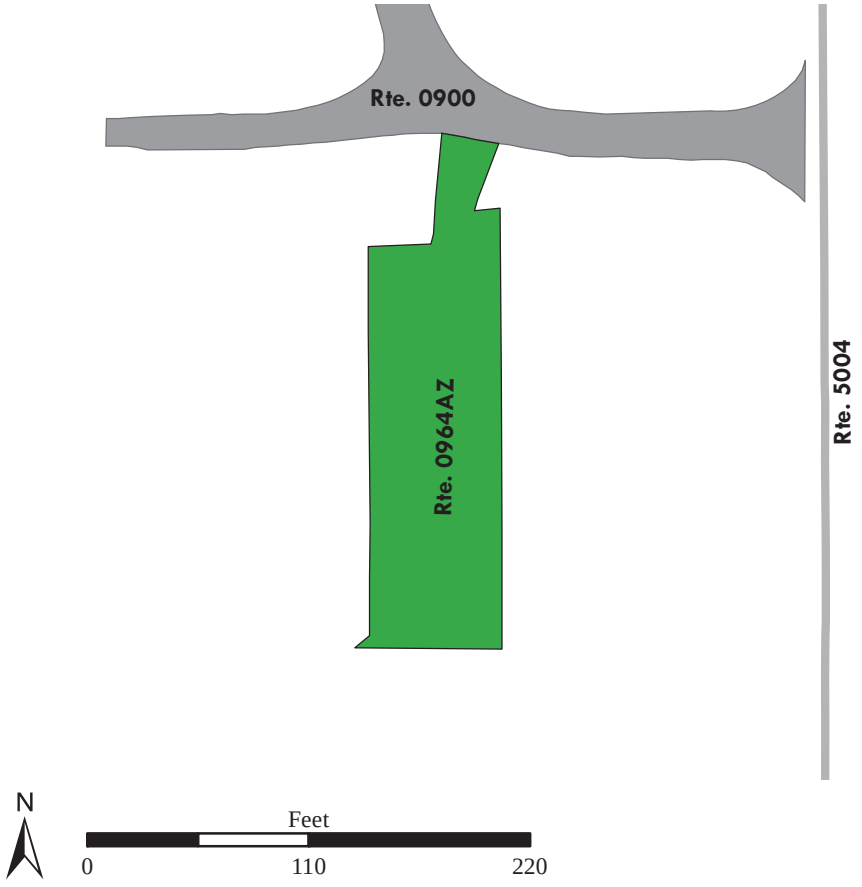
TO ROUTE 0965 (HQ EMPLOYEE PARKING C)

Inspection Date	FMSS Number	User Access	Surface Type
2/25/2015	16819	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
12,113	0.209	8	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



Joshua Tree National Park

ROUTE 0964BZ: HQ EMPLOYEE PARKING B

Subcomponent of Route JOTR-0964ZZ
Manual Rating

FROM ROUTE 0965 (HQ EMPLOYEE PARKING C)

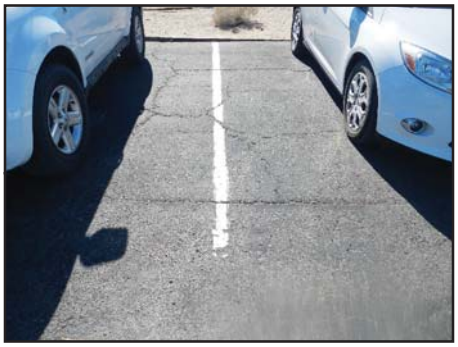
TO PARKING

Inspection Date	FMSS Number	User Access	Surface Type
2/25/2015	16819	NONPUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
3,585	0.062	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	

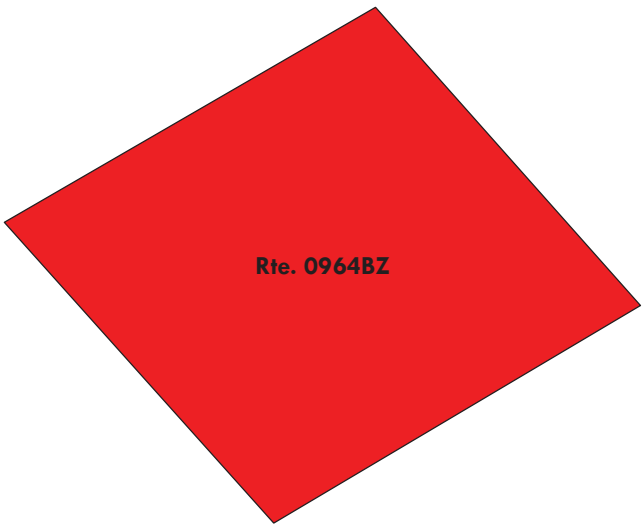
Route Condition Legend – Pavement Condition Rating (PCR)

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

See Appendix for definitions and formulas



Multiple Surface Types: Asphalt=3,196 SF; Concrete=389 SF



Joshua Tree National Park

ROUTE 0967: SILVER BELL MINE WAYSIDE #75 PARKING

Manual Rating

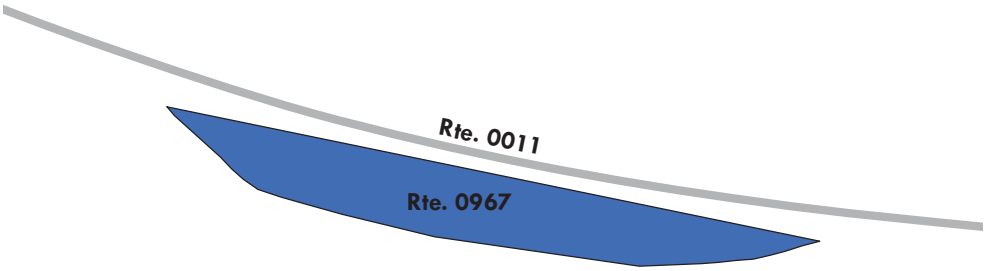
ADJACENT TO ROUTE 0011 (PINTO BASIN ROAD) AT MP 7.89 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	232185	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
2,235	0.038	8	DO NOTHING
Curb Type		**Curb & Gutter Type**	
CONCRETE		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



Joshua Tree National Park

ROUTE 0969: DESERT GOVERNOR WAYSIDE #79 PARKING

Manual Rating

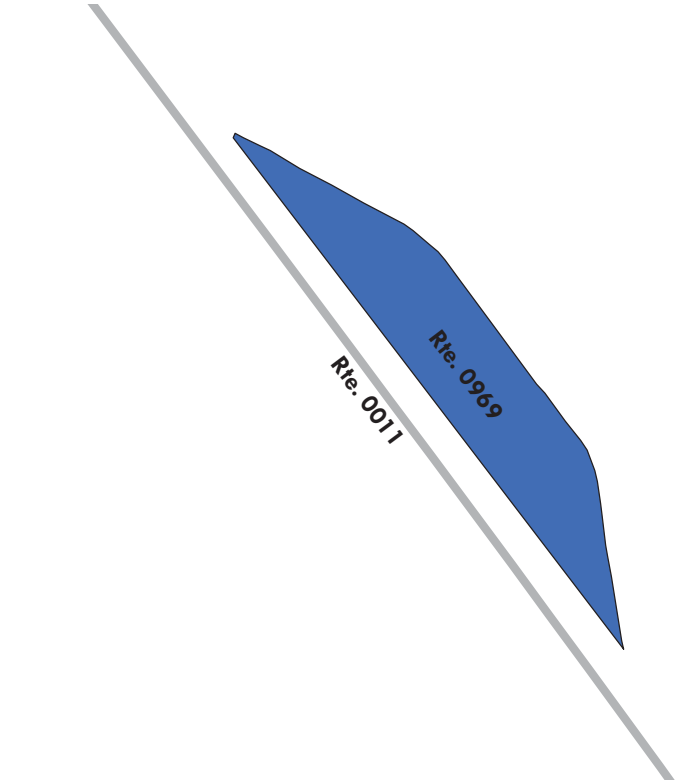
ADJACENT TO ROUTE 0011 (PINTO BASIN ROAD) AT MP 19.78 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	232200	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
6,137	0.106	6	DO NOTHING
Curb Type		**Curb & Gutter Type**	
CONCRETE		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



Joshua Tree National Park

ROUTE 0972: SMOKE TREE WASH PARKING

Manual Rating

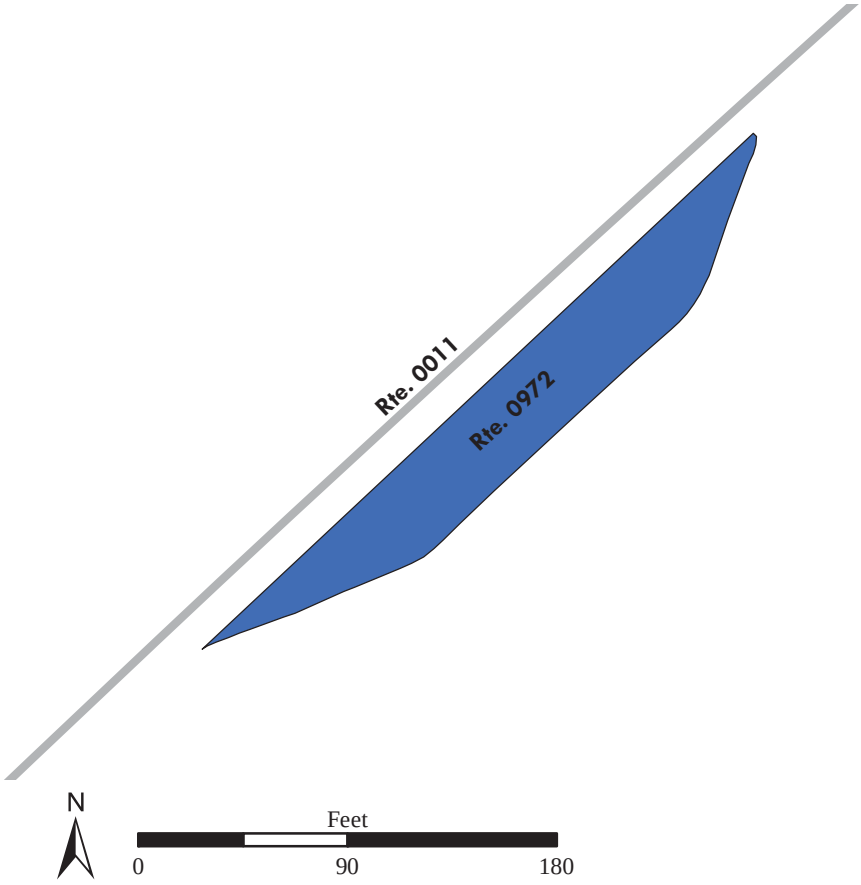
ADJACENT TO ROUTE 0011 (PINTO BASIN ROAD) AT MP 25.20 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	232215	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
7,461	0.128	7	DO NOTHING
Curb Type		**Curb & Gutter Type**	
CONCRETE		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



Joshua Tree National Park

ROUTE 0973: WOODLAND BOUNTY EXHIBIT PARKING

Manual Rating

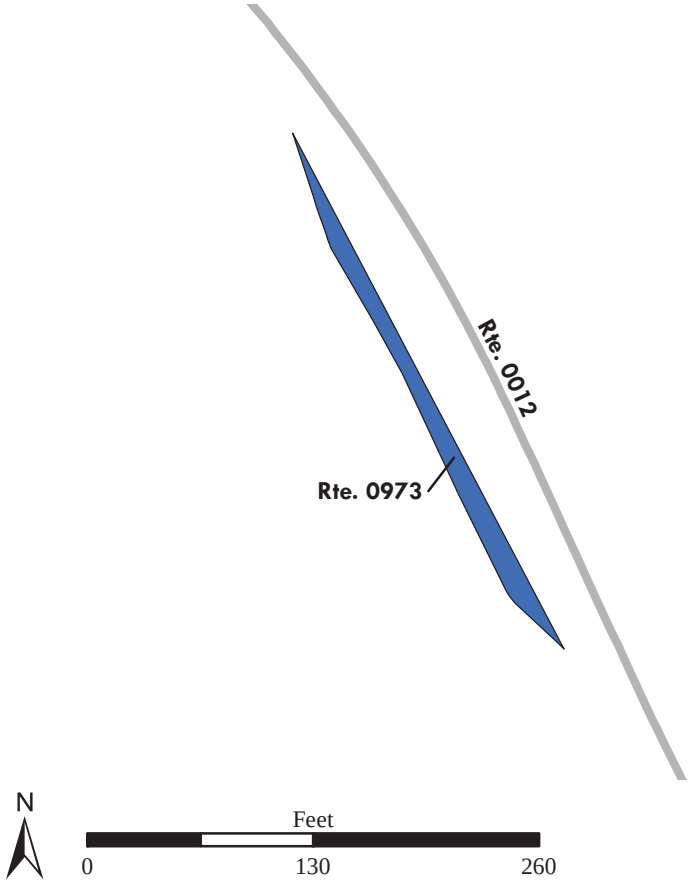
ADJACENT TO ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 17.02 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	232221	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
2,597	0.045	6	DO NOTHING
Curb Type		**Curb & Gutter Type**	
CONCRETE		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



Joshua Tree National Park

ROUTE 0974: A DISTINGUISHED YUCCA WAYSIDE PARKING

Manual Rating

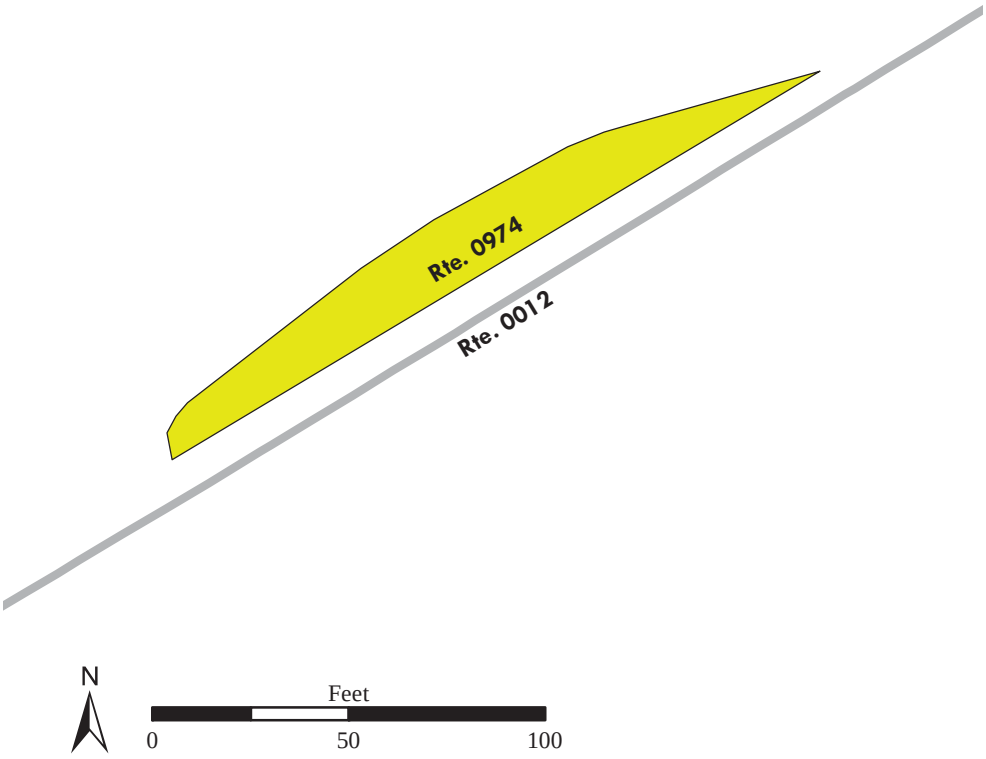
ADJACENT TO ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 5.67 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
2/25/2015	232225	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
2,058	0.035	NOT APPLICABLE	DO NOTHING
Curb Type		**Curb & Gutter Type**	
NO CURB		CONCRETE	
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



Joshua Tree National Park

ROUTE 0976: COLORADO DESERT WAYSIDE PARKING, N COTTONWOOD CYN E SIDE

Manual Rating

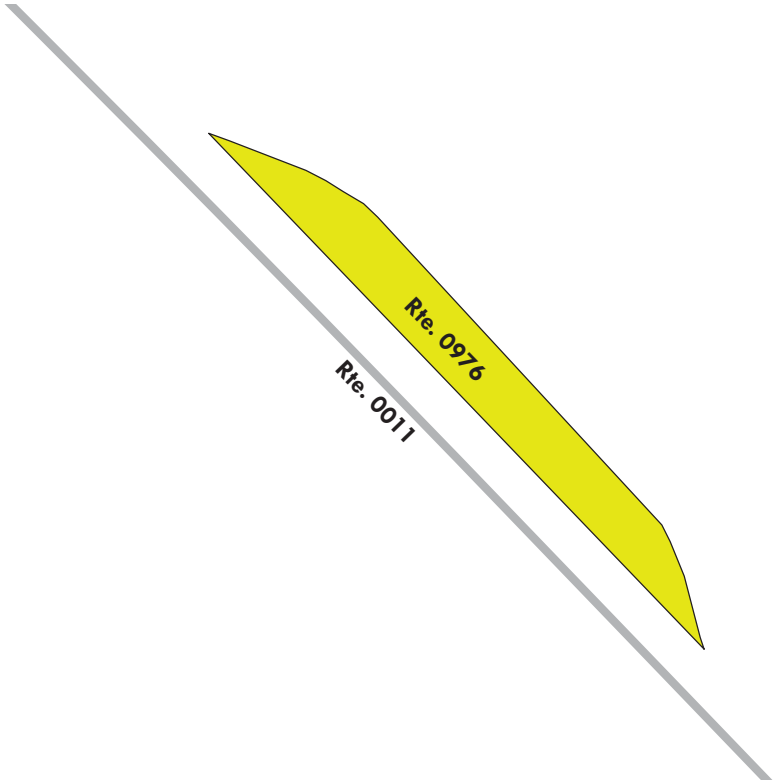
ADJACENT TO ROUTE 0011 (PINTO BASIN ROAD) AT MP 32.26 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	232232	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
2,445	0.042	NOT APPLICABLE	DO NOTHING
Curb Type		**Curb & Gutter Type**	
NO CURB		CONCRETE	
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



Joshua Tree National Park

ROUTE 0977: SOUTH COLORADO DESERT WAYSIDE PARKING

Manual Rating

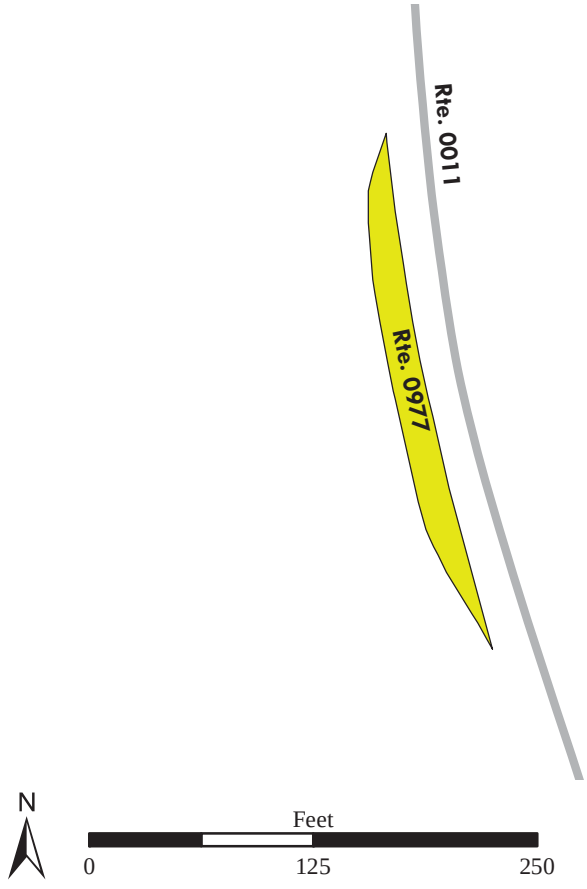
ADJACENT TO ROUTE 0011 (PINTO BASIN ROAD) AT MP 32.99 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	232233	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
3,615	0.062	NOT APPLICABLE	DO NOTHING
Curb Type		**Curb & Gutter Type**	
NO CURB		CONCRETE	
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



Joshua Tree National Park

ROUTE 0978: THE ADVENTUROUS YUCCA WAYSIDE PARKING, #54

Manual Rating

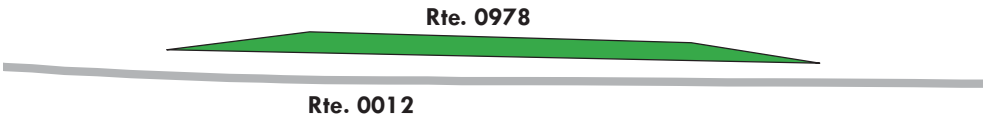
ADJACENT TO ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 10.64 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
2/25/2015	232236	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
1,423	0.025	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



Joshua Tree National Park

ROUTE 0980: MOJAVE DESERT WAYSIDE EXHIBIT #47 PARKING

Manual Rating

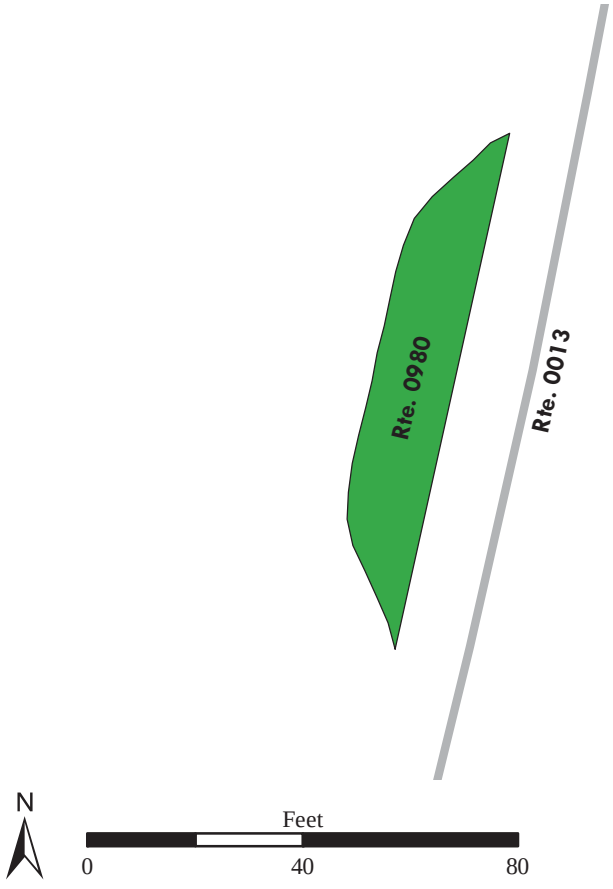
ADJACENT TO ROUTE 0013 (KEY'S VIEW ROAD) AT MP 2.51 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	232451	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
964	0.017	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



Joshua Tree National Park

ROUTE 0981: MOJAVE SYMBOL WAYSIDE PARKING, #51

Manual Rating

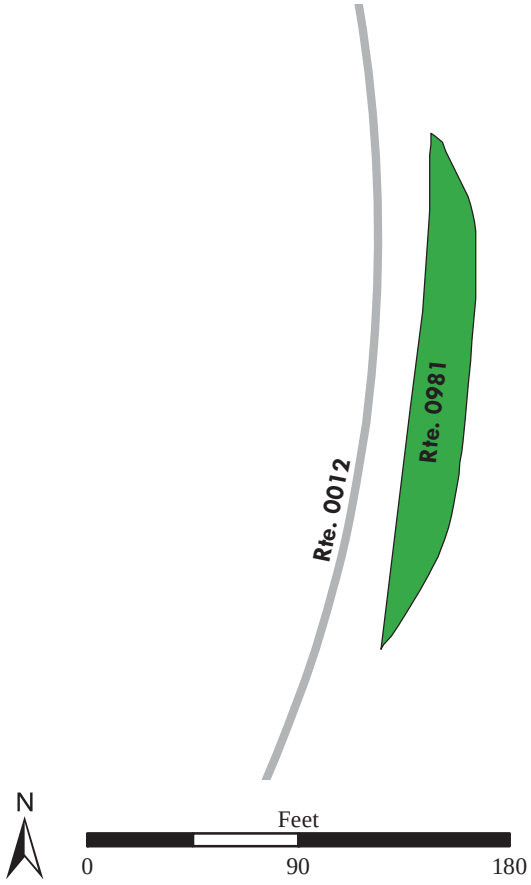
ADJACENT TO ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 4.56 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
2/25/2015	232482	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
3,397	0.058	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



Joshua Tree National Park

ROUTE 0982: RAPID FIRE WAYSIDE PARKING

Manual Rating

ADJACENT TO ROUTE 0013 (KEY'S VIEW ROAD) AT MP 0.57 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	232483	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
985	0.017	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

Joshua Tree National Park

ROUTE 0983: BIGHORNS DOMAIN WAYSIDE PARKING,#55

Manual Rating

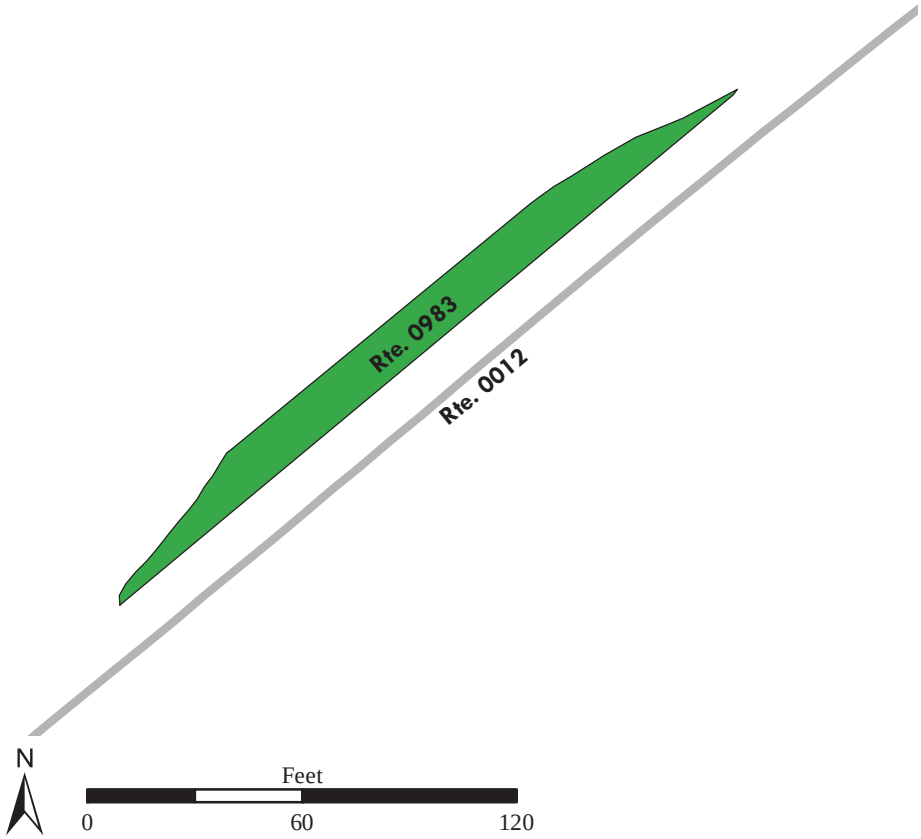
ADJACENT TO ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 11.94 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
2/25/2015	232492	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
1,911	0.033	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



Joshua Tree National Park

ROUTE 0984: INTRUDER WAYSIDE PARKING,#53

Manual Rating

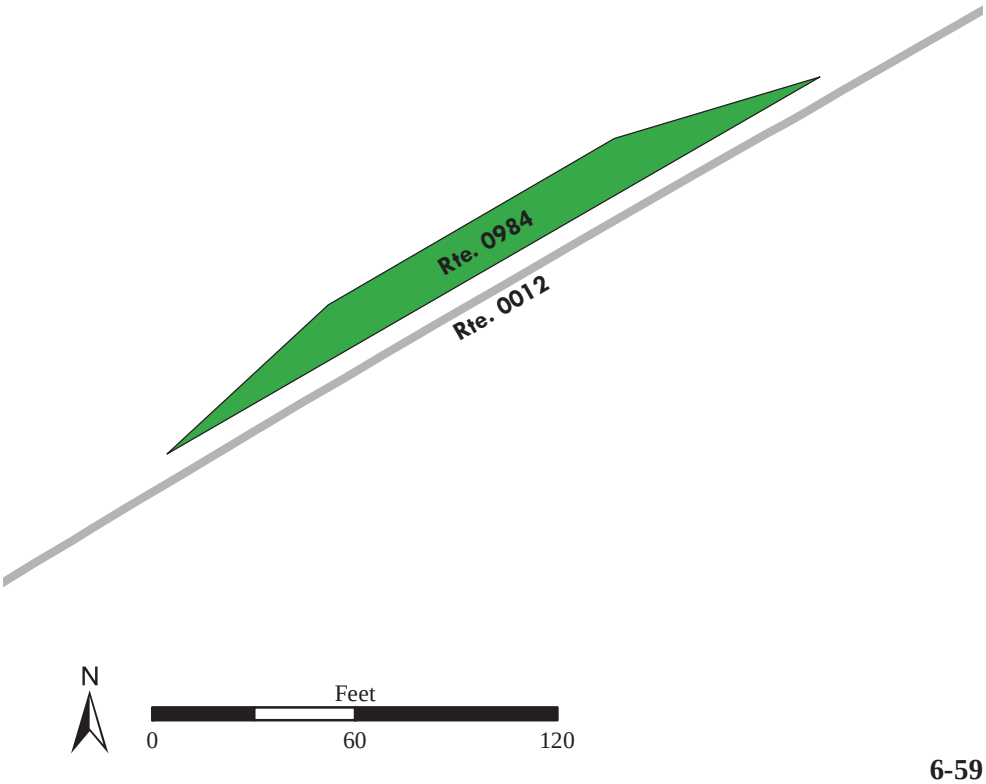
ADJACENT TO ROUTE 0012 (EAST-WEST HIGHWAY) AT MP 7.20 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
2/25/2015	232496	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
1,931	0.033	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



Joshua Tree National Park

ROUTE 0985: TREE OF LIFE WAYSIDE PARKING #58

Manual Rating

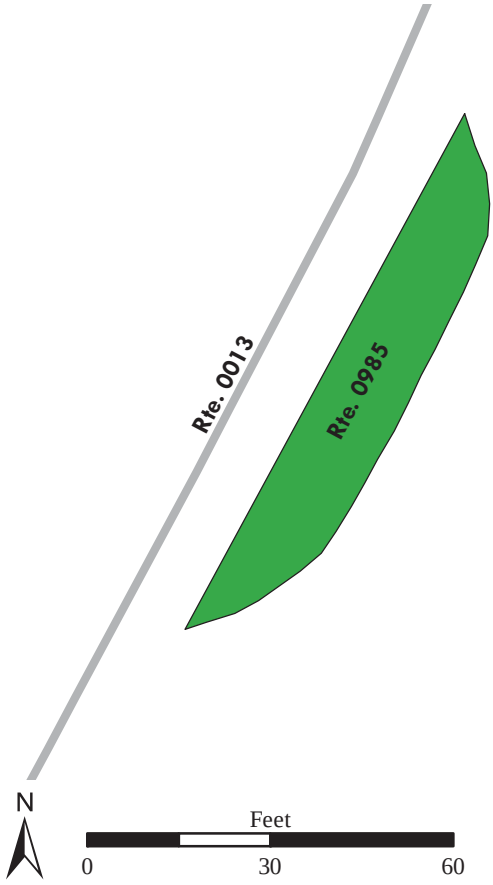
ADJACENT TO ROUTE 0013 (KEY'S VIEW ROAD) AT MP 1.40 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	232496	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
931	0.016	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



Joshua Tree National Park

ROUTE 0988: PINTO PEOPLE WAYSIDE PARKING, #81

Manual Rating

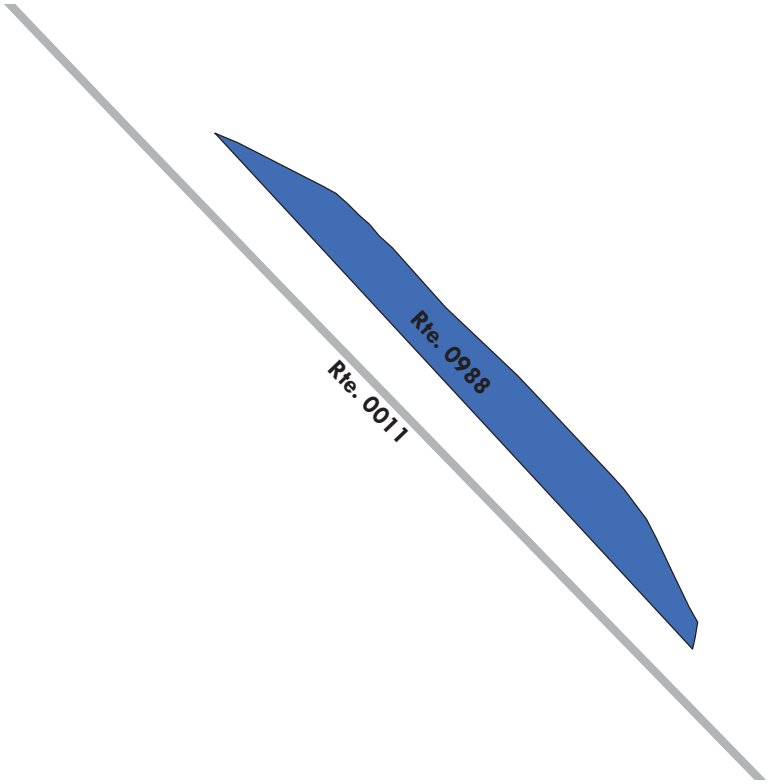
ADJACENT TO ROUTE 0011 (PINTO BASIN ROAD) AT MP 21.93 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	N/A	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
1,526	0.026	8	DO NOTHING
Curb Type		**Curb & Gutter Type**	
CONCRETE		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



Joshua Tree National Park

ROUTE 0989A: SOUTH ENTRANCE SIGN PARKING A

Manual Rating

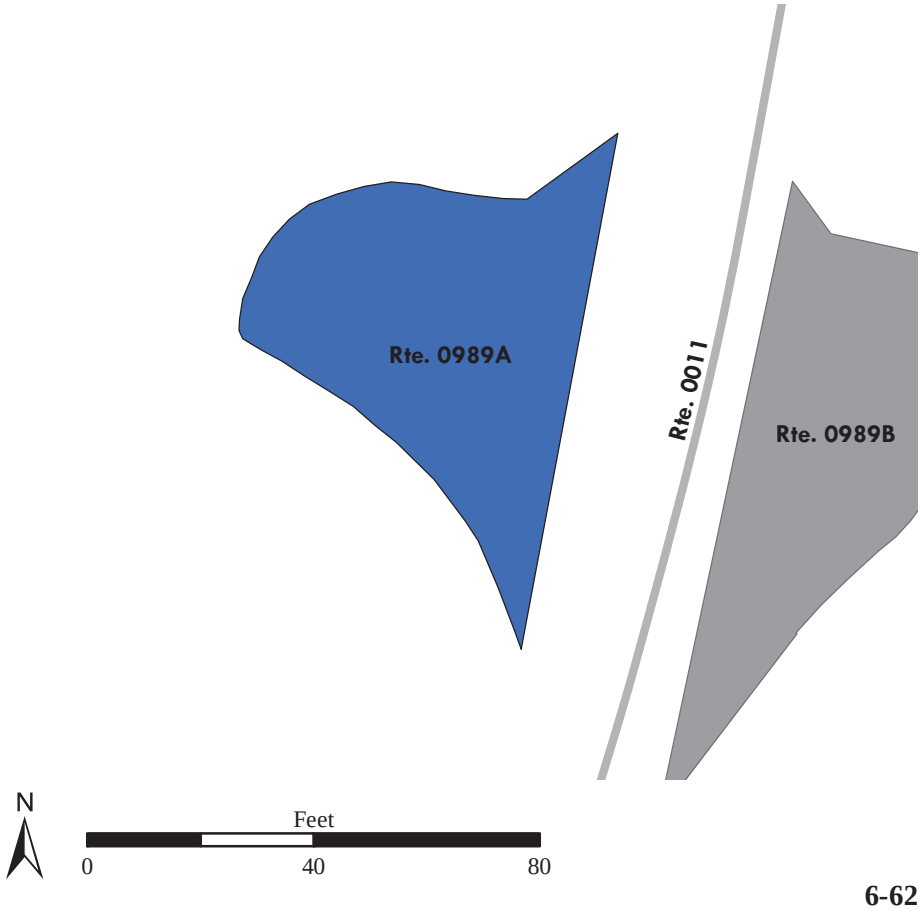
ADJACENT TO ROUTE 0011 (PINTO BASIN ROAD) AT MP 35.49 ON RIGHT

Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	N/A	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
2,341	0.04	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



Joshua Tree National Park

ROUTE 0989B: SOUTH ENTRANCE SIGN PARKING B

Manual Rating

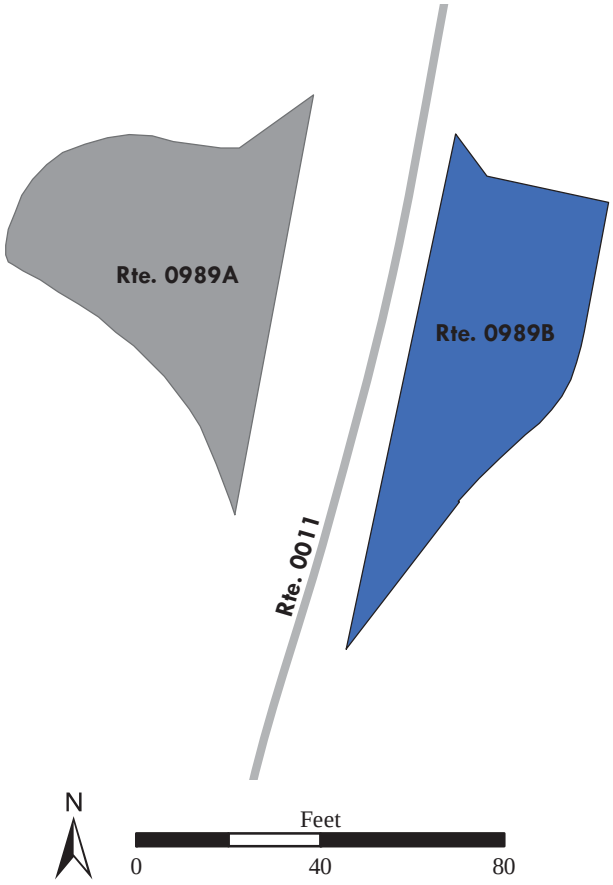
ADJACENT TO ROUTE 0011 (PINTO BASIN ROAD) AT MP 35.49 ON LEFT

Inspection Date	FMSS Number	User Access	Surface Type
2/24/2015	N/A	PUBLIC	ASPHALT
Area (Sq. Ft.)	**Lane Miles (11' Widths)**	**Curb Reveal (Inches)**	**Curb Recommendation**
2,171	0.037	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

Joshua Tree 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.

JOTR: Mile Marker Sign Locations

JOTR-0011: PINTO BASIN ROAD

MILE MARKER (MM) SIGN	CYCLE 6 GIS MILEPOST (MP)	CYCLE 6 VIDEO MILEPOST (MP)	SIDE IN VIDEO	LATITUDE	LONGITUDE
MILE MARKER 1	1.019	1.006	RIGHT	34.006837	-116.020976
MILE MARKER 2	1.988	1.964	RIGHT	33.993385	-116.022207
MILE MARKER 3	NO SIGN IN VIDEO	2.942	RIGHT	33.982195	-116.015705
MILE MARKER 4	3.956	3.915	RIGHT	33.974988	-116.000982
MILE MARKER 5	4.957	4.907	RIGHT	33.965820	-115.988143
MILE MARKER 6	5.936	5.875	RIGHT	33.952977	-115.983519
MILE MARKER 7	6.930	6.864	RIGHT	33.942129	-115.973364
MILE MARKER 8	7.922	7.846	RIGHT	33.933277	-115.960354
MILE MARKER 9	8.900	8.814	RIGHT	33.929822	-115.944821
MILE MARKER 10	9.892	9.797	RIGHT	33.925587	-115.9298117
MILE MARKER 11	10.903	10.790	RIGHT	33.925911	-115.9137943
MILE MARKER 12	11.867	11.748	RIGHT	33.925301	-115.8988815
MILE MARKER 13	12.858	12.846	RIGHT	33.916746	-115.8836346
MILE MARKER 14	13.853	13.719	RIGHT	33.914017	-115.8703933
MILE MARKER 15	14.824	14.677	RIGHT	33.908286	-115.856044
MILE MARKER 16	15.831	15.675	RIGHT	33.902401	-115.8408407
MILE MARKER 17	16.813	16.647	RIGHT	33.894558	-115.8298824
MILE MARKER 18	17.802	17.631	RIGHT	33.883812	-115.8187139
MILE MARKER 19	18.796	18.614	RIGHT	33.873654	-115.806806
MILE MARKER 20	19.791	19.601	RIGHT	33.862988	-115.7958033
MILE MARKER 21	20.776	20.580	RIGHT	33.852097	-115.7853466
MILE MARKER 22	21.766	21.557	RIGHT	33.842446	-115.7732824
MILE MARKER 23	22.753	22.540	RIGHT	33.832150	-115.7619145
MILE MARKER 24	23.753	23.528	RIGHT	33.819445	-115.7634845
MILE MARKER 25	24.749	24.516	RIGHT	33.808018	-115.7730118
MILE MARKER 26	25.731	25.489	RIGHT	33.797991	-115.7847686
MILE MARKER 27	26.734	NO SIGN IN VIDEO	RIGHT	NO SIGN IN VIDEO	NO SIGN IN VIDEO
MILE MARKER 28	27.696	27.435	RIGHT	33.775569	-115.8043752
MILE MARKER 29	28.696	28.428	RIGHT	33.764928	-115.8149086
MILE MARKER 30	NO SIGN IN VIDEO	29.411	RIGHT	33.751709	-115.8217785
MILE MARKER 31	30.688	30.403	RIGHT	33.740310	-115.824925
MILE MARKER 32	31.695	31.402	RIGHT	33.728016	-115.821985
MILE MARKER 33	32.671	32.369	RIGHT	33.718994	-115.810544
MILE MARKER 34	33.656	33.343	RIGHT	33.706438	-115.804282
MILE MARKER 35	34.666	34.346	RIGHT	33.692122	-115.802387

NOTES:

MILE MARKER (MM): Mile Marker sign located along the roadside

MILEPOST (MP): Milepost obtained from RIP GIS or the Data Collection Vehicle (DCV) video

JOTR: Mile Marker Sign Locations

JOTR-0012: EAST-WEST HIGHWAY

MILE MARKER (MM) SIGN	CYCLE 6 GIS MILEPOST (MP)	CYCLE 6 VIDEO MILEPOST (MP)	SIDE IN VIDEO	LATITUDE	LONGITUDE
MILE MARKER 1	NO SIGN IN VIDEO	1.008	RIGHT	34.069404	-116.0255988
MILE MARKER 2	NO SIGN IN VIDEO	2.006	RIGHT	34.0559179	-116.0259868
MILE MARKER 3	2.874	2.964	RIGHT	34.069353	-116.025501
MILE MARKER 4	3.888	3.952	RIGHT	34.055783	-116.026146
MILE MARKER 5	4.849	4.935	RIGHT	34.04247	-116.026326
MILE MARKER 6	5.846	5.918	RIGHT	34.029769	-116.020591
MILE MARKER 7	6.839	6.906	RIGHT	34.018676	-116.02387
MILE MARKER 8	7.830	7.884	RIGHT	34.010622	-116.037455
MILE MARKER 9	8.824	8.876	RIGHT	34.002816	-116.0517
MILE MARKER 10	9.816	9.849	RIGHT	33.994105	-116.06516
MILE MARKER 11	10.812	10.832	RIGHT	33.996732	-116.076476
MILE MARKER 12	11.794	11.820	RIGHT	34.006934	-116.087218
MILE MARKER 13	12.785	12.809	RIGHT	34.010296	-116.103598
MILE MARKER 14	13.785	13.796	RIGHT	34.004424	-116.119221
MILE MARKER 15	14.781	14.774	RIGHT	34.003244	-116.135256
MILE MARKER 16	15.776	15.752	RIGHT	33.994868	-116.148053
MILE MARKER 17	16.761	16.720	RIGHT	33.990348	-116.161033
MILE MARKER 18	17.753	17.718	RIGHT	34.003503	-116.163882
MILE MARKER 19	18.728	18.701	RIGHT	34.015577	-116.165637
MILE MARKER 20	19.735	19.679	RIGHT	34.026972	-116.175502
MILE MARKER 21	20.727	20.657	RIGHT	34.038356	-116.183849
MILE MARKER 22	21.714	21.650	RIGHT	34.041877	-116.197554
MILE MARKER 23	22.703	22.633	RIGHT	34.052213	-116.208528
MILE MARKER 24	23.705	23.599	RIGHT	34.057778	-116.223897
MILE MARKER 25	24.692	24.612	RIGHT	34.069253	-116.233253

NOTES:
MILE MARKER (MM): Mile Marker sign located along the roadside
MILEPOST (MP): Milepost obtained from RIP GIS or the Data Collection Vehicle (DCV) video

JOTR: Route Milepost Log

ROUTE 0011: PINTO BASIN ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0012 (EAST-WEST HIGHWAY)
0.00	0.00	INTERSECTION	R	ROUTE 0012 (EAST-WEST HIGHWAY)
0.05	0.05	INTERSECTION	L	ROUTE 0400 (PINTO WYE ROAD)
0.90	0.90	INTERSECTION	R	ROUTE 0972 (SMOKE TREE WASH PARKING)
1.33	1.33	INTERSECTION	L	ROUTE 0205 (BELLE CAMPGROUND ROAD)
2.21	2.21	INTERSECTION	R	ROUTE 0902 (TWIN TANKS BACKCOUNTRY PARKING)
2.72	2.72	INTERSECTION	L	ROUTE 0206 (WHITE TANK CAMPGROUND ENTRANCE ROAD)
3.11	3.11	INTERSECTION	R	ROUTE 0903 (STIRRUP TANK PARKING)
4.38	4.38	INTERSECTION	L	ROUTE 0412 (PISTOL RANGE BORROW PIT ROAD)
7.08	7.08	INTERSECTION	L	ROUTE 0966 (TWO DESERTS MEET PARKING)
7.89	7.89	INTERSECTION	R	ROUTE 0967 (SILVER BELL MINE WAYSIDE #75 PARKING)
9.85	9.85	INTERSECTION	R	ROUTE 0936 (CHOLLA CACTUS GARDEN PARKING)
9.91	9.91	INTERSECTION	R	ROUTE 0936 (CHOLLA CACTUS GARDEN PARKING)
11.32	11.32	INTERSECTION	R	ROUTE 0937 (OCOTILLO PATCH PARKING)
16.27	16.27	INTERSECTION	L	ROUTE 0938 (TURKEY FLATS BACKCOUNTRY BOARD PARKING)
18.55	18.55	INTERSECTION	L	UNPAVED ROUTE
19.78	19.78	INTERSECTION	R	ROUTE 0969 (DESERT GOVERNOR WAYSIDE #79 PARKING)
21.19	21.19	INTERSECTION	R	ROUTE 0939 (PORCUPINE WASH BACKCOUNTRY BOARD PARKING)
21.20	21.20	INTERSECTION	R	ROUTE 0939 (PORCUPINE WASH BACKCOUNTRY BOARD PARKING)
21.93	21.93	INTERSECTION	L	ROUTE 0988 (PINTO PEOPLE WAYSIDE PARKING, #81)
22.87	22.87	INTERSECTION	R	ROUTE 0971 (OLD DALE/BLACK EAGLE WAYSIDE #88 PARKING)
22.88	22.88	INTERSECTION	L	ROUTE 0104 (BLACK EAGLE MINE ROAD)
25.20	25.20	INTERSECTION	L	ROUTE 0972 (SMOKE TREE WASH PARKING)
29.21	29.21	INTERSECTION	R	UNPAVED PARKING
29.64	29.64	INTERSECTION	L	ROUTE 0904 (COTTONWOOD VISITOR CENTER)
29.70	29.70	INTERSECTION	L	ROUTE 0204 (COTTONWOOD SPRINGS CAMPGROUND AND TRAILHEAD)

Data Collected on 5/2015

JOTR: Route Milepost Log

ROUTE 0011: PINTO BASIN ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
29.72	29.72	INTERSECTION	R	ROUTE 0221 (PINKHAM CANYON ROAD)
30.23	30.25	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
30.32	30.34	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
30.45	30.49	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
30.99	31.02	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
31.37	31.41	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
31.56	31.60	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
31.72	31.80	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
32.12	32.20	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
32.26	32.26	INTERSECTION	L	ROUTE 0976 (COLORADO DESERT WAYSIDE PARKING, N COTTONWOOD CYN E SIDE)
32.40	32.50	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
32.69	33.79	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
32.99	32.99	INTERSECTION	R	ROUTE 0977 (SOUTH COLORADO DESERT WAYSIDE PARKING)
35.07	35.07	INTERSECTION	L	ROUTE 0909 (BAJADA ALL TRAIL PARKING)
35.11	35.11	INTERSECTION	L	ROUTE 0909 (BAJADA ALL TRAIL PARKING)
35.49	35.49	INTERSECTION	L	ROUTE 0989B (SOUTH ENTRANCE SIGN PARKING B)
35.49	35.49	INTERSECTION	R	ROUTE 0989A (SOUTH ENTRANCE SIGN PARKING A)
35.54	35.54	PARK BOUNDARY	N/A	SOUTH PARK BOUNDARY
35.54	35.54	INTERSECTION	N/A	ROUTE 5003 (COTTONWOOD ROAD (STATE ROUTE 195))

Data Collected on 5/2015

JOTR: Route Milepost Log

ROUTE 0012: EAST-WEST HIGHWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	ROUTE 5004 (UTAH TRAIL)
0.00	0.00	PARK BOUNDARY	N/A	NORTH PARK BOUNDARY
0.02	0.02	INTERSECTION	R	ROUTE 0956 (NORTH ENTRANCE SIGN PARKING)
0.12	0.12	INTERSECTION	R	ROUTE 0919 (NORTH ENTRANCE CONTACT STATION PARKING)
0.55	0.55	INTERSECTION	R	ROUTE 0935 (NORTH ENTRANCE EXHIBIT PARKING)
0.55	0.55	INTERSECTION	L	ROUTE 0110 (NORTH ENTRANCE BACKCOUNTRY BOARD ROAD)
4.56	4.56	INTERSECTION	L	ROUTE 0981 (MOJAVE SYMBOL WAYSIDE PARKING, #51)
4.67	4.67	INTERSECTION	L	ROUTE 0011 (PINTO BASIN ROAD)
4.78	4.83	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
5.67	5.67	INTERSECTION	R	ROUTE 0974 (A DISTINGUISHED YUCCA WAYSIDE PARKING)
6.87	6.87	INTERSECTION	L	ROUTE 0201 (LIVE OAK PICNIC AREA ROAD)
6.87	6.87	INTERSECTION	R	ROUTE 0200 (SPLIT ROCK PICNIC AREA ROAD)
7.20	7.20	INTERSECTION	R	ROUTE 0984 (INTRUDER WAYSIDE PARKING,#53)
7.25	7.31	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
8.14	8.14	INTERSECTION	L	ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A)
9.73	9.73	INTERSECTION	L	ROUTE 0300 (GEOLOGY TOUR ROAD)
9.73	9.73	INTERSECTION	R	ROUTE 0100 (QUEEN VALLEY CONNECTOR)
10.44	10.44	INTERSECTION	R	ROUTE 0105 (BIG HORN PASS ROAD)
10.64	10.64	INTERSECTION	R	ROUTE 0978 (THE ADVENTUROUS YUCCA WAYSIDE PARKING, #54)
11.71	11.71	INTERSECTION	R	ROUTE 0401 (SHEEP PASS BORROW PIT ROAD)
11.94	11.94	INTERSECTION	R	ROUTE 0983 (BIGHORNS DOMAIN WAYSIDE PARKING,#55)
12.22	12.22	INTERSECTION	L	ROUTE 0211 (SHEEP PASS CAMPGROUND ENTRANCE ROAD)
12.84	12.84	INTERSECTION	L	ROUTE 0912 (RYAN MOUNTAIN TRAILHEAD PARKING)
12.95	12.95	INTERSECTION	L	ROUTE 0912 (RYAN MOUNTAIN TRAILHEAD PARKING)
13.48	13.48	INTERSECTION	R	ROUTE 0959 (HALL OF HORRORS PARKING)
13.54	13.54	INTERSECTION	R	ROUTE 0959 (HALL OF HORRORS PARKING)

Data Collected on 5/2015

JOTR: Route Milepost Log

ROUTE 0012: EAST-WEST HIGHWAY

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
14.01	14.01	INTERSECTION	L	ROUTE 0911 (OYSTER BAR TRAILHEAD PARKING)
14.07	14.07	INTERSECTION	L	ROUTE 0911 (OYSTER BAR TRAILHEAD PARKING)
14.37	14.37	INTERSECTION	L	ROUTE 0958 (RYAN RANCH PARKING)
14.43	14.43	INTERSECTION	L	ROUTE 0209 (RYAN CAMPGROUND ENTRANCE ROAD)
14.97	14.97	INTERSECTION	L	ROUTE 0013 (KEY'S VIEW ROAD)
15.15	15.15	INTERSECTION	L	ROUTE 0920 (MOJAVE PLANTS PARKING)
15.20	15.20	INTERSECTION	L	ROUTE 0920 (MOJAVE PLANTS PARKING)
16.54	16.54	INTERSECTION	R	ROUTE 0101 (BARKER DAM ROAD)
16.65	16.65	INTERSECTION	L	ROUTE 0918 (HIDDEN VALLEY PICNIC PARKING)
16.65	16.65	INTERSECTION	R	ROUTE 0922 (INTERSECTION ROCK PARKING)
17.02	17.02	INTERSECTION	L	ROUTE 0973 (WOODLAND BOUNTY EXHIBIT PARKING)
17.63	17.63	INTERSECTION	L	ROUTE 0921 (HEMMINGWAY PARKING)
17.69	17.69	INTERSECTION	L	ROUTE 0921 (HEMMINGWAY PARKING)
17.71	17.72	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
18.01	18.01	INTERSECTION	R	UNPAVED ROUTE
18.01	18.01	INTERSECTION	L	ROUTE 0102 (LOST HORSE RANGER STATION ROAD)
18.42	18.56	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
18.94	18.94	INTERSECTION	R	ROUTE 0949 (BOY SCOUT BACKCOUNTRY BOARD PARKING)
19.55	19.55	INTERSECTION	L	ROUTE 0913 (QUAIL SPRINGS PARKING AREA)
19.60	19.60	INTERSECTION	L	ROUTE 0913 (QUAIL SPRINGS PARKING AREA)
20.93	20.93	INTERSECTION	L	ROUTE 0979 (MEMORIAL FIRE WAYSIDE PARKING, #70A)
23.03	23.03	INTERSECTION	L	ROUTE 0957 (BARREN OR BOUNTIFUL PARKING)
25.41	25.41	INTERSECTION	L	ROUTE 0914 (WEST ENTRANCE STATION)
25.46	25.46	INTERSECTION	N/A	PAVED ROUTE (QUAIL SPRINGS ROAD)
25.46	25.46	PARK BOUNDARY	N/A	WEST PARK BOUNDARY

Data Collected on 5/2015

JOTR: Route Milepost Log

ROUTE 0013: KEY'S VIEW ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0012 (EAST-WEST HIGHWAY)
0.00	0.00	INTERSECTION	R	ROUTE 0012 (EAST-WEST HIGHWAY)
0.20	0.20	INTERSECTION	L	ROUTE 0953 (CAP ROCK PARKING)
0.25	0.25	INTERSECTION	L	ROUTE 0953 (CAP ROCK PARKING)
0.57	0.57	INTERSECTION	R	ROUTE 0982 (RAPID FIRE WAYSIDE PARKING)
1.09	1.09	INTERSECTION	R	ROUTE 0954 (JUNIPER FLATS BACKCOUNTRY BOARD PARKING)
1.40	1.40	INTERSECTION	L	ROUTE 0985 (TREE OF LIFE WAYSIDE PARKING #58)
2.45	2.45	INTERSECTION	L	ROUTE 0106 (LOST HORSE MINE ROAD)
2.51	2.51	INTERSECTION	R	ROUTE 0980 (MOJAVE DESERT WAYSIDE EXHIBIT #47 PARKING)
4.83	4.83	INTERSECTION	L	UNPAVED ROUTE
5.17	5.17	INTERSECTION	L	ROUTE 0961 (KEYS VIEW HANDICAPPED PARKING)
5.50	5.50	INTERSECTION	R	ROUTE 0915A (KEYS VIEW PARKING A)
5.50	5.50	INTERSECTION	N/A	ROUTE 0915B (KEYS VIEW PARKING B)

JOTR: Route Milepost Log

ROUTE 0101: BARKER DAM ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0012 (EAST-WEST HIGHWAY)
0.00	0.00	INTERSECTION	L	ROUTE 0012 (EAST-WEST HIGHWAY)
0.07	0.07	INTERSECTION	L	ROUTE 0207 (HIDDEN VALLEY CAMPGROUND ENTRANCE ROAD)
0.67	0.67	INTERSECTION	L	ROUTE 0405 (KEYS RANCH ROAD)
1.51	1.51	INTERSECTION	R	ROUTE 0105 (BIG HORN PASS ROAD)
1.51	1.51	INTERSECTION	N/A	ROUTE 0923 (BARKER DAM PARKING)

ROUTE 0203AZ: JUMBO ROCKS CAMPGROUND LOOP A

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0012 (EAST-WEST HIGHWAY)
0.00	0.00	INTERSECTION	L	ROUTE 0012 (EAST-WEST HIGHWAY)
0.02	0.02	INTERSECTION	L	ROUTE 0960AZ (JUMBO ROCKS DAY USE PKG)
0.05	0.05	INTERSECTION	L	ROUTE 0960AZ (JUMBO ROCKS DAY USE PKG)
0.15	0.15	INTERSECTION	L	ROUTE 0203BZ (JUMBO ROCKS CAMPGROUND LOOP B)
0.18	0.18	INTERSECTION	L	ROUTE 0203BZ (JUMBO ROCKS CAMPGROUND LOOP B)
0.20	0.20	INTERSECTION	L	ROUTE 0203CZ (JUMBO ROCKS CAMPGROUND LOOP C)
0.23	0.23	INTERSECTION	L	ROUTE 0203CZ (JUMBO ROCKS CAMPGROUND LOOP C)
0.25	0.25	INTERSECTION	R	ROUTE 0203DZ (JUMBO ROCKS CAMPGROUND LOOP D)
0.28	0.28	INTERSECTION	R	ROUTE 0203DZ (JUMBO ROCKS CAMPGROUND LOOP D)
0.29	0.29	INTERSECTION	R	ROUTE 0203EZ (JUMBO ROCKS CAMPGROUND LOOP E)
0.32	0.32	INTERSECTION	L	ROUTE 0203FZ (JUMBO ROCKS CAMPGROUND LOOP F)
0.37	0.37	INTERSECTION	L	ROUTE 0203FZ (JUMBO ROCKS CAMPGROUND LOOP F)
0.38	0.38	INTERSECTION	R	ROUTE 0960BZ (SKULL ROCK TRAIL AND AMPHITHEATER PARKING)
0.46	0.46	INTERSECTION	R	ROUTE 0203EZ (JUMBO ROCKS CAMPGROUND LOOP E)
0.52	0.52	INTERSECTION	R	ROUTE 0203GZ (JUMBO ROCKS CAMPGROUND LOOP G)
0.56	0.56	INTERSECTION	R	ROUTE 0203GZ (JUMBO ROCKS CAMPGROUND LOOP G)
0.65	0.65	INTERSECTION	L	ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A)
0.67	0.67	INTERSECTION	R	ROUTE 0960CZ (SITES 72 THROUGH 76 PARKING)
0.72	0.72	INTERSECTION	L	ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A)
0.72	0.72	INTERSECTION	R	ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A)

ROUTE 0203BZ: JUMBO ROCKS CAMPGROUND LOOP B

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A)
0.00	0.00	INTERSECTION	R	ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A)
0.07	0.07	INTERSECTION	R	ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A)
0.07	0.07	INTERSECTION	L	ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A)

JOTR: Route Milepost Log

ROUTE 0203CZ: JUMBO ROCKS CAMPGROUND LOOP C

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A)
0.00	0.00	INTERSECTION	R	ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A)
0.04	0.04	INTERSECTION	L	ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A)
0.04	0.04	INTERSECTION	R	ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A)

JOTR: Route Milepost Log

ROUTE 0203DZ: JUMBO ROCKS CAMPGROUND LOOP D

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A)
0.00	0.00	INTERSECTION	L	ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A)
0.05	0.05	INTERSECTION	L	ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A)
0.05	0.05	INTERSECTION	R	ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A)

ROUTE 0203EZ: JUMBO ROCKS CAMPGROUND LOOP E

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A)
0.00	0.00	INTERSECTION	L	ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A)
0.18	0.18	INTERSECTION	L	ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A)
0.18	0.18	INTERSECTION	R	ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A)

ROUTE 0203FZ: JUMBO ROCKS CAMPGROUND LOOP F

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A)
0.00	0.00	INTERSECTION	L	ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A)
0.08	0.08	INTERSECTION	R	ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A)
0.08	0.08	INTERSECTION	L	ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A)

ROUTE 0203GZ: JUMBO ROCKS CAMPGROUND LOOP G

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A)
0.00	0.00	INTERSECTION	R	ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A)
0.18	0.18	INTERSECTION	L	ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A)
0.18	0.18	INTERSECTION	R	ROUTE 0203AZ (JUMBO ROCKS CAMPGROUND LOOP A)

ROUTE 0204: COTTONWOOD SPRINGS CAMPGROUND AND TRAILHEAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0011 (PINTO BASIN ROAD)
0.00	0.00	INTERSECTION	L	ROUTE 0011 (PINTO BASIN ROAD)
0.01	0.01	INTERSECTION	L	ROUTE 0904 (COTTONWOOD VISITOR CENTER)
0.27	0.27	INTERSECTION	L	ROUTE 0406 (COTTONWOOD RESIDENTIAL ROAD)
0.38	0.38	INTERSECTION	R	ROUTE 0409 (COTTONWOOD WATER TANK ROAD)
0.46	0.46	INTERSECTION	L	ROUTE 0906 (COTTONWOOD DUMP STATION)
0.50	0.50	INTERSECTION	L	ROUTE 0906 (COTTONWOOD DUMP STATION)
0.70	0.70	INTERSECTION	L	ROUTE 0216 (COTTONWOOD CAMPGROUND ENTRANCE ROAD)
0.90	0.93	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
1.00	1.04	LOW WATER CROSSING	N/A	HIGH WATER FLOW AREA
1.14	1.14	INTERSECTION	N/A	ROUTE 0908 (COTTONWOOD SPRINGS OASIS PARKING)

JOTR: Route Milepost Log

ROUTE 0205: BELLE CAMPGROUND ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0011 (PINTO BASIN ROAD)
0.00	0.00	INTERSECTION	R	ROUTE 0011 (PINTO BASIN ROAD)
0.12	0.12	INTERSECTION	N/A	ROUTE 0205A (BELLE CAMPGROUND LOOP ROAD)

Data Collected on 5/2015

JOTR: Route Milepost Log

ROUTE 0206: WHITE TANK CAMPGROUND ENTRANCE ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0011 (PINTO BASIN ROAD)
0.00	0.00	INTERSECTION	R	ROUTE 0011 (PINTO BASIN ROAD)
0.14	0.14	INTERSECTION	L	ROUTE 0206A (WHITE TANK CAMPGROUND LOOP ROAD)
0.14	0.14	INTERSECTION	N/A	ROUTE 0940 (WHITE TANK CAMPGROUND SITES 3-5 PARKING)

JOTR: Route Milepost Log

ROUTE 0207: HIDDEN VALLEY CAMPGROUND ENTRANCE ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0101 (BARKER DAM ROAD)
0.00	0.00	INTERSECTION	L	ROUTE 0101 (BARKER DAM ROAD)
0.12	0.12	INTERSECTION	R	ROUTE 0207C (HIDDEN VALLEY CAMPGROUND LOOP ROAD C)
0.12	0.12	INTERSECTION	L	ROUTE 0207B (HIDDEN VALLEY CAMPGROUND LOOP ROAD B)

JOTR: Route Milepost Log

ROUTE 0211: SHEEP PASS CAMPGROUND ENTRANCE ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0012 (EAST-WEST HIGHWAY)
0.00	0.00	INTERSECTION	L	ROUTE 0012 (EAST-WEST HIGHWAY)
0.29	0.29	INTERSECTION	N/A	ROUTE 0211A (SHEEP PASS CAMPGROUND LOOP A)
0.29	0.29	INTERSECTION	L	ROUTE 0211A (SHEEP PASS CAMPGROUND LOOP A)

JOTR: Route Milepost Log

ROUTE 0212A: INDIAN COVE CAMPGROUND ROAD A

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	ROUTE 5002 (INDIAN COVE ROAD)
0.00	0.00	INTERSECTION	R	ROUTE 0916 (INDIAN COVE CONTACT STATION)
0.00	0.00	PARK BOUNDARY	N/A	NORTH PARK BOUNDARY
0.04	0.04	INTERSECTION	R	ROUTE 0916 (INDIAN COVE CONTACT STATION)
0.49	0.49	INTERSECTION	R	UNPAVED PARKING
1.68	1.68	INTERSECTION	R	ROUTE 0212B (INDIAN COVE CAMPGROUND ROAD B)
1.94	1.94	INTERSECTION	L	ROUTE 0212A (INDIAN COVE CAMPGROUND ROAD A)
1.95	1.95	INTERSECTION	L	ROUTE 0212C (INDIAN COVE CAMPGROUND ROAD C)
1.96	1.96	INTERSECTION	N/A	ROUTE 0212C (INDIAN COVE CAMPGROUND ROAD C)

Data Collected on 5/2015

JOTR: Route Milepost Log

ROUTE 0213: 49 PALMS OASIS ACCESS ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	ROUTE 5005 (49 PALMS CANYON ROAD)
0.00	0.00	PARK BOUNDARY	N/A	NORTH PARK BOUNDARY
0.47	0.47	INTERSECTION	N/A	ROUTE 0917 (49 PALMS OASIS PARKING)

ROUTE 0216: COTTONWOOD CAMPGROUND ENTRANCE ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0204 (COTTONWOOD SPRINGS CAMPGROUND AND TRAILHEAD)
0.00	0.00	INTERSECTION	R	ROUTE 0204 (COTTONWOOD SPRINGS CAMPGROUND AND TRAILHEAD)
0.09	0.09	INTERSECTION	L	ROUTE 0907A (COTTONWOOD CAMPGROUND PARKING A)
0.15	0.15	INTERSECTION	R	ROUTE 0907D (COTTONWOOD CAMPGROUND PICNIC PARKING D)
0.18	0.18	INTERSECTION	R	ROUTE 0216A (COTTONWOOD CAMPGROUND LOOP A)
0.18	0.18	INTERSECTION	N/A	ROUTE 0216B (COTTONWOOD CAMPGROUND LOOP B)

JOTR: Route Milepost Log

ROUTE 0216A: COTTONWOOD CAMPGROUND LOOP A

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0216 (COTTONWOOD CAMPGROUND ENTRANCE ROAD)
0.00	0.00	INTERSECTION	L	ROUTE 0216B (COTTONWOOD CAMPGROUND LOOP B)
0.06	0.06	ONE-WAY START	N/A	N/A
0.06	0.06	INTERSECTION	L	ROUTE 0216A (COTTONWOOD CAMPGROUND LOOP A)
0.20	0.20	INTERSECTION	L	ROUTE 0907A (COTTONWOOD CAMPGROUND PARKING A)
0.25	0.25	INTERSECTION	L	ROUTE 0907C (COTTONWOOD CAMPGROUND PARKING C)
0.27	0.27	INTERSECTION	L	ROUTE 0216A (COTTONWOOD CAMPGROUND LOOP A)
0.27	0.27	INTERSECTION	R	ROUTE 0216A (COTTONWOOD CAMPGROUND LOOP A)
0.27	0.27	ONE-WAY END	N/A	N/A

JOTR: Route Milepost Log

ROUTE 0216B: COTTONWOOD CAMPGROUND LOOP B

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	N/A	ROUTE 0216 (COTTONWOOD CAMPGROUND ENTRANCE ROAD)
0.00	0.00	INTERSECTION	R	ROUTE 0216A (COTTONWOOD CAMPGROUND LOOP A)
0.08	0.08	ONE-WAY START	N/A	N/A
0.08	0.08	INTERSECTION	L	ROUTE 0216B (COTTONWOOD CAMPGROUND LOOP B)
0.14	0.14	INTERSECTION	L	ROUTE 0907B (COTTONWOOD CAMPGROUND PARKING B)
0.34	0.34	INTERSECTION	L	ROUTE 0216B (COTTONWOOD CAMPGROUND LOOP B)
0.34	0.34	INTERSECTION	R	ROUTE 0216B (COTTONWOOD CAMPGROUND LOOP B)
0.34	0.34	ONE-WAY END	N/A	N/A

JOTR: Route Milepost Log

ROUTE 0400: PINTO WYE ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0011 (PINTO BASIN ROAD)
0.00	0.00	INTERSECTION	L	ROUTE 0011 (PINTO BASIN ROAD)
0.41	0.41	INTERSECTION	R	UNPAVED ROUTE
0.50	0.50	INTERSECTION	L	ROUTE 0411 (BELLE MOUNTAIN ROAD)
0.52	0.52	INTERSECTION	N/A	ROUTE 0901 (MAINTENANCE YARD PARKING)

ROUTE 0406: COTTONWOOD RESIDENTIAL ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	L	ROUTE 0204 (COTTONWOOD SPRINGS CAMPGROUND AND TRAILHEAD)
0.00	0.00	INTERSECTION	R	ROUTE 0204 (COTTONWOOD SPRINGS CAMPGROUND AND TRAILHEAD)
0.07	0.07	INTERSECTION	L	ROUTE 0905 (COTTONWOOD MAINTENANCE YARD PARKING)
0.15	0.15	INTERSECTION	N/A	DEAD END

Data Collected on 5/2015

JOTR: Route Milepost Log

ROUTE 0411: BELLE MOUNTAIN ROAD

FROM MILEPOST	TO MILEPOST	FEATURE	SIDE	COMMENT
0.00	0.00	INTERSECTION	R	ROUTE 0400 (PINTO WYE ROAD)
0.00	0.00	INTERSECTION	N/A	ROUTE 0400 (PINTO WYE ROAD)
3.35	3.35	INTERSECTION	L	ROUTE 0411 (BELLE MOUNTAIN ROAD)
3.35	3.35	INTERSECTION	N/A	GATE

Section 8
Appendix

Joshua Tree 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.

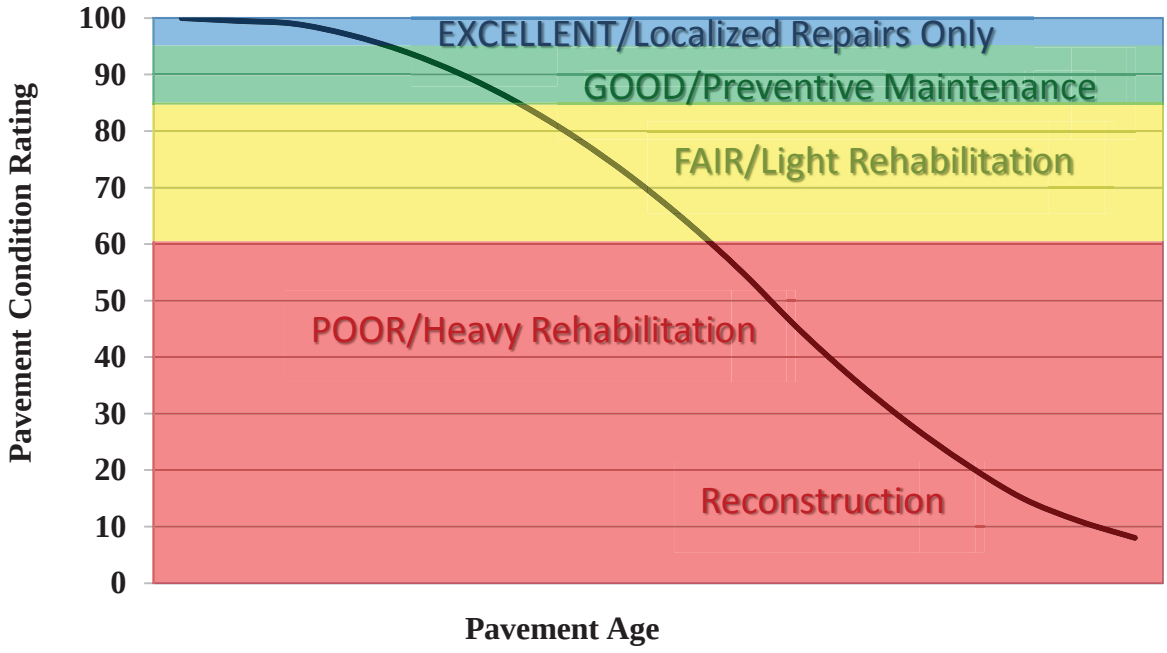
Explanation of the Condition Descriptions

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:

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

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:

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

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