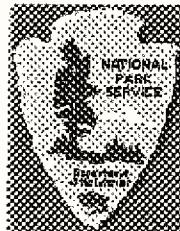


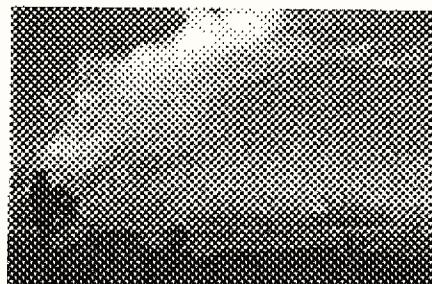


D-88

The Road Inventory of Joshua Tree National Park



national park service



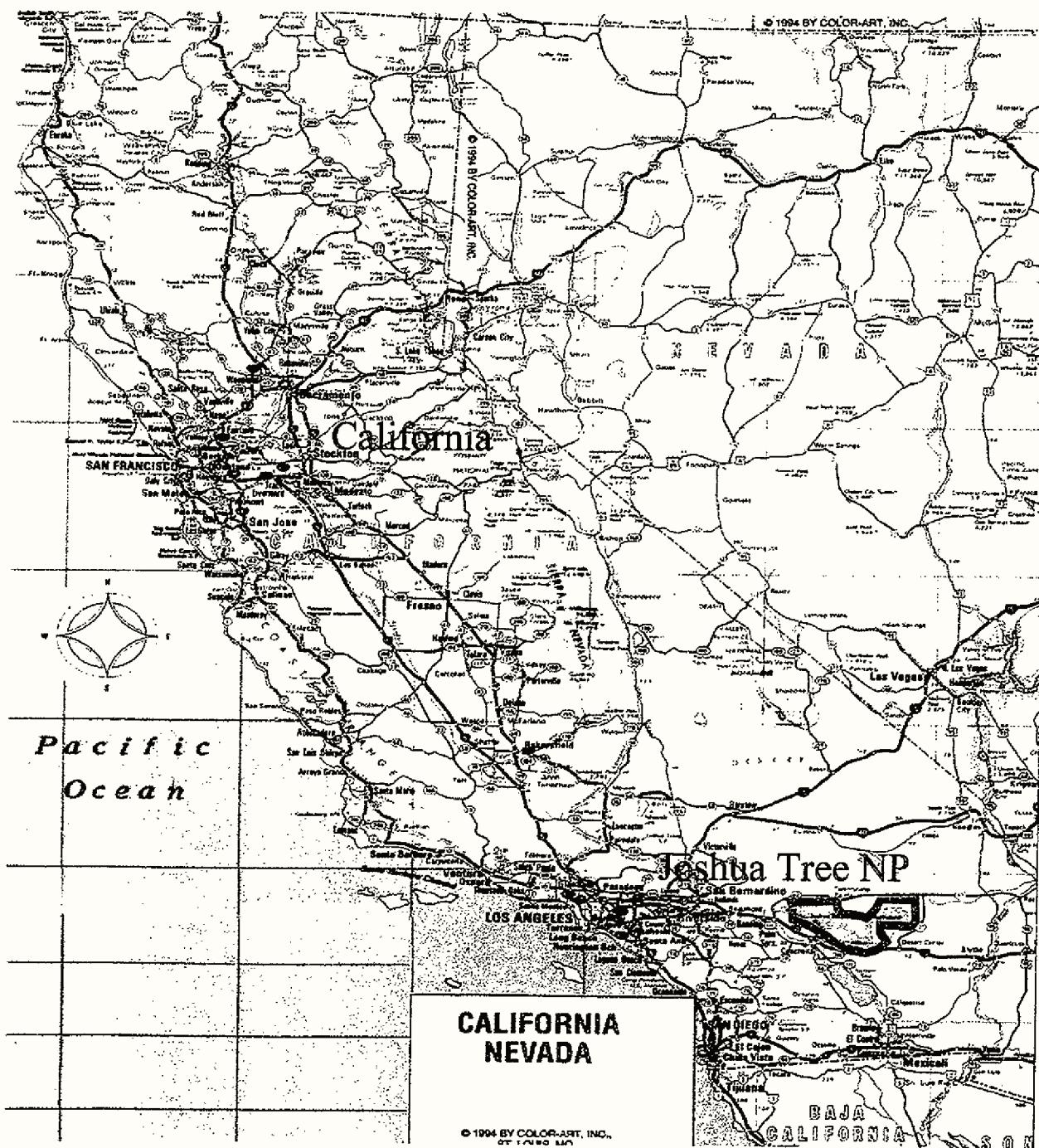
Road Inventory Program

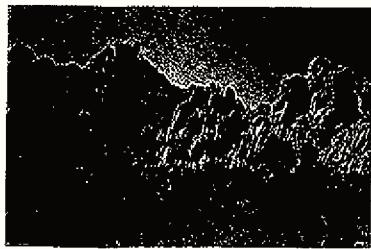
Prepared By:
Federal Highway Administration
Eastern Federal Lands Highway Division
February 1999

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DENVER SERVICE CENTER
NATIONAL PARK SERVICE



Joshua Tree National Park in California





CONTENTS

<u>SECTION</u>		<u>PAGE</u>
I.	<u>INTRODUCTION</u>	1 - 1
II.	<u>PARK SUMMARY INFORMATION</u>	
	Joshua Tree National Park Summaries	2 - 1
	Cost to Improve Based on Historical and Estimated Data	2 - 2
III.	<u>PARK SUMMARY MAPS</u>	
	Route Location Key Map	3 - 1
	Route Location Area Map # 1	3 - 2
	Route Location Area Map # 2	3 - 3
	Route Location Area Map # 3	3 - 4
	Route Condition Key Map - PCR / DCR Mile by Mile	3 - 5
IV.	<u>PARK ROUTE INVENTORY</u>	
	Route Identification Lists (Numeric & Alphabetic)	4 - 1
V.	<u>PAVED ROUTE CONDITION RATING SHEETS</u>	5 - 1
VI.	<u>PARKING LOT CONDITION / SUMMARY</u>	
	Paved Parking Areas	6 - 1
VII.	<u>PARK WIDE MAINTENANCE FEATURES SUMMARY</u>	7 - 1
VIII.	<u>PARK ROUTE MAINTENANCE FEATURES SUMMARY</u>	8 - 1
IX.	<u>PARK MAINTENANCE FEATURES ROAD LOG</u>	9 - 1
X.	<u>PHOTOGRAPHIC SHEETS</u>	10 - 1
XI.	<u>UNPAVED ROUTES</u>	11 - 1
XII.	<u>VIDEO TAPE INFORMATION</u>	12 - 1
XIII.	<u>APPENDIX</u>	
	Glossary of Terms and Abbreviations	13 - 1
	General Park Road Classification Table	13 - 3
	Description of Rating System	13 - 4
XIV.	<u>NOTES</u>	

INTRODUCTION

Background: In July 1976, amended December 1980, the National Park Service (NPS) and the Federal Highway Administration (FHWA) entered into a Memorandum of Agreement (MOA), establishing the Road Inventory Program (RIP). The purpose of RIP, per the 1980 MOA, was to develop long range and short range costs and programs to bring NPS roads up to, or to maintain, designated standards; as well as provide a database so the NPS can revise their Maintenance Management System, if necessary. A supplementary Project Agreement, Number DTFH71-98-X-00005, was prepared and signed by the FHWA and the NPS to coordinate the project roles and responsibilities, funding requirements, and define the deliverables for the completion of Cycle 2 (January 1998 to January 2000).

Since 1984 the funding has been derived from the NPS FLHP (Title 23) planning funds, and coordinated by the National Park Service Park Facility Management Division. The need for a total road information database was mandated by the requirements for a continuing, comprehensive, and coordinated (3-C) planning process, and Maintenance Management System.

Federal Lands Highway (FLH) was assigned the task to inventory maintenance items (pavement type and quantities, location of culverts, ditches, guardrail, etc.), identify pavement distresses and evaluate the condition of existing park roads, summarize the data and findings in a report, and provide a video log of the NPS roads system.

Objective: The objective of the RIP report is to provide NPS personnel at all levels, with the basic information needed for effective road and road system planning, management, operations, and maintenance.

These reports are prepared in standard format and content with comprehensive data analysis for each park, which will replace the old Brown Books. The data presented in each report will vary greatly from park to park, but the presentation of the report will be uniform in format and will become a seamless document throughout the NPS roads system, displaying site specific data for each park.

Scope: RIP is a national program coordinated by the Eastern Federal Lands Highway Division (EFLHD) of the FHWA. The FHWA goal for the paved park roads is to provide timely, cost effective, and accurate roadway inventories and pavement surveys of all the National Park Roads. Dissemination of this data to the NPS will provide them with a data base upon which they can develop a funding and maintenance management program to maintain roadway standards of the National Park System to prevent further deterioration over the next five years.

In an effort to track the condition of the park roads, a cyclic data collection and reporting process was implemented for all parks and regions. Monitoring the condition and system performance of the paved roads over time using a percent good, fair, and poor condition

rating provided a realistic means of assessing the funding needs for road improvements. The pavement condition rating system is described in SECTION XIII of this report. This pavement condition performance assessment will determine the level of paved park road deterioration throughout the park road system.

The report will include a Park Summary, a Park Summary Map, a Park Route Inventory, a Maintenance Features Summary, a Paved Route Condition Rating, and a Features Inventory. Also included is a listing of all unpaved routes in each park and various Appendices.

The FHWA RIP team will inspect, rate, inventory the roads, and prepare the final RIP reports for distribution to the NPS. All the field work is coordinated with the site specific park and the regional offices to ensure customer satisfaction. The FHWA Washington Office coordinates policy and prepares national reports and needs assessment studies for Congress.

The FHWA is responsible for all the data presented in this report. Anyone having questions or comments regarding the contents of this report are encouraged to contact the FHWA RIP Coordinator or the NPS RIP Coordinator in your Region.

RIP Coordinator
Technical Services, HTS-15
FHWA/EFLHD
21400 Ridgetop Circle
Sterling, VA 20166
(703) 285-0076

Joshua Tree National Park Summaries

Overall Park Mileage Summary

PARK TOTAL SUMMARY ITEMS	TOTAL	DATE
PAVED ROUTE MILES	83.24	2/99
UNPAVED ROUTE ESTIMATED MILES	75.09	2/99
PAVED AND UNPAVED ROUTE MILES	158.33	2/99
PARKING LOT LANE MILES	7.43	2/99
PAVED LANE MILES	161.61	2/99

Note: Paved Lane Miles includes parking lot areas which have been converted to lane miles using an 11-foot lane width.

Estimated Unpaved Mileage Summary By Functional Class

F.C.	MILEAGE	PERCENTAGE
I	0	0
II	25.50	33.96%
III	7.13	9.50%
IV	31.52	41.98%
V	0	0
VI	10.94	14.57%
VII	0	0
VIII	0	0

Cost to Improve to "Excellent" Condition
 Based on Historic and Estimated Data

AWARD DATE	SOURCE	WORK PERFORMED	LENGTH (MILES)	COST	COST PER MILE	INITIAL CONDITION
1995-97	FHWA Projects	3-R (Resurfacing)	52.07	\$3,776,479	\$72,527	Good
1995-97	FHWA Projects	3-R (Resurfacing, Restoration, and Rehabilitation) Projects	2.65	\$1,512,222	\$570,650	Fair
1998	FHWA Current Projects	4-R (Resurfacing, Restoration, Rehabilitation, and Reconstruction) Projects	11.26	\$11,324,002	\$1,005,684	Poor

Based on the above table, the cost to improve existing condition miles to "Excellent" PCR are:

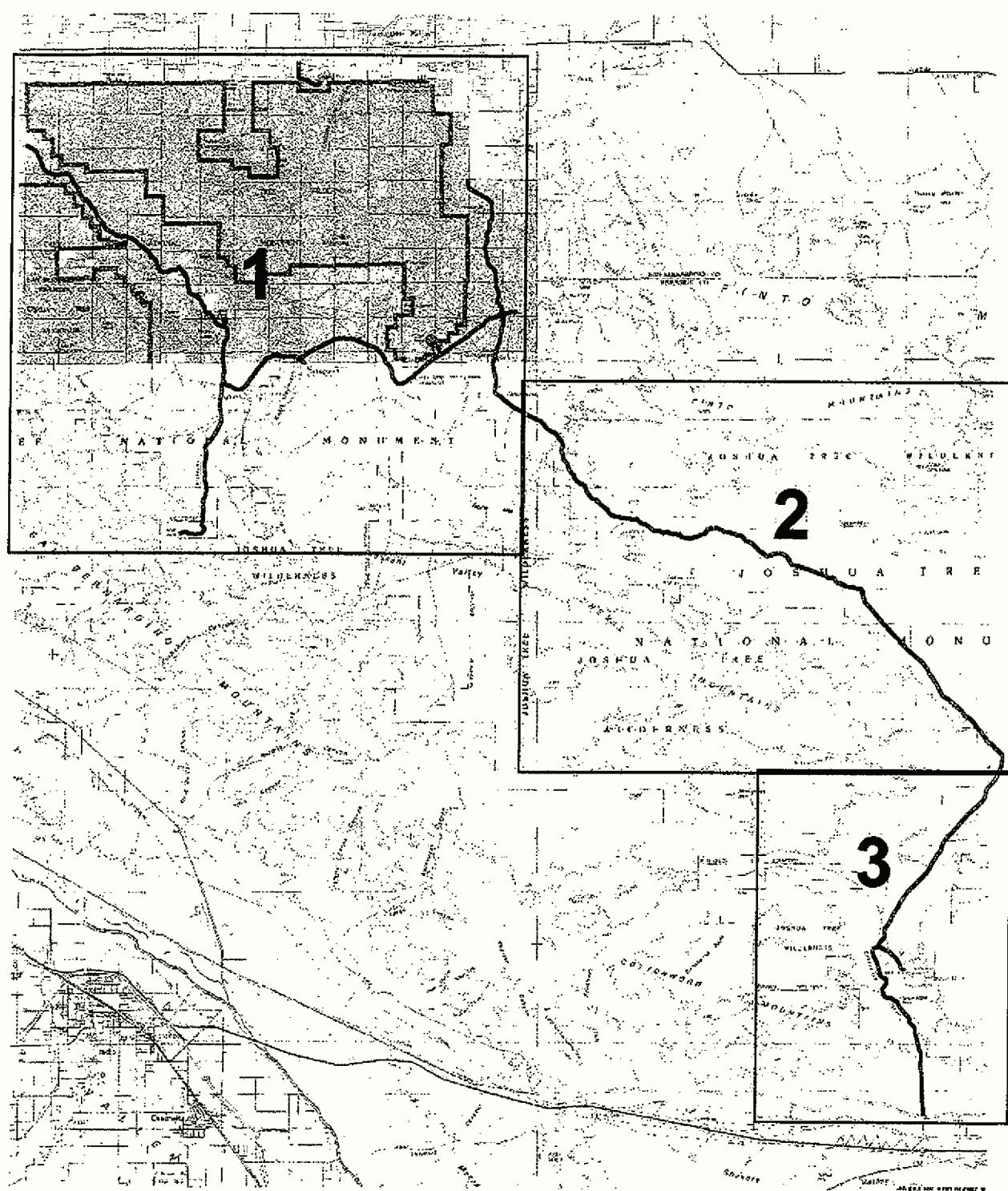
Existing Condition	Existing Miles	Estimated Cost to Improve
Good	19.65	\$1,425,155
Fair	29.76	\$16,982,535
Poor	30.89	\$31,065,579
Totals	80.30	\$49,473,269

Paved Route Miles and Percentages by Functional Class and PCR

F. C.	Pavement Condition Rating (PCR)								TOTAL MILES
	Excellent (95-100) MILES		Good (85-94) MILES		Fair (61-84) MILES		Poor (<=60) MILES		
	MILES	%	MILES	%	MILES	%	MILES	%	
I	2.94	4.43%	16.04	24.14%	25.58	38.50%	21.88	32.93%	66.44
II	0	0	0	0	0	0	0	0	0
III	0	0	3.47	21.26%	3.84	23.53%	9.01	55.21%	16.32
IV	0	0	0	0	0	0	0	0	0
V	0	0	0.14	29.17%	0.34	70.83%	0	0	0.48
VI	0	0	0	0	0	0	0	0	0
VII	0	0	0	0	0	0	0	0	0
VIII	0	0	0	0	0	0	0	0	0
Totals	2.94	3.53%	19.65	23.61%	29.76	35.75%	30.89	37.11%	83.24

Includes paved roads visually rated that were not driven with the ARAN.

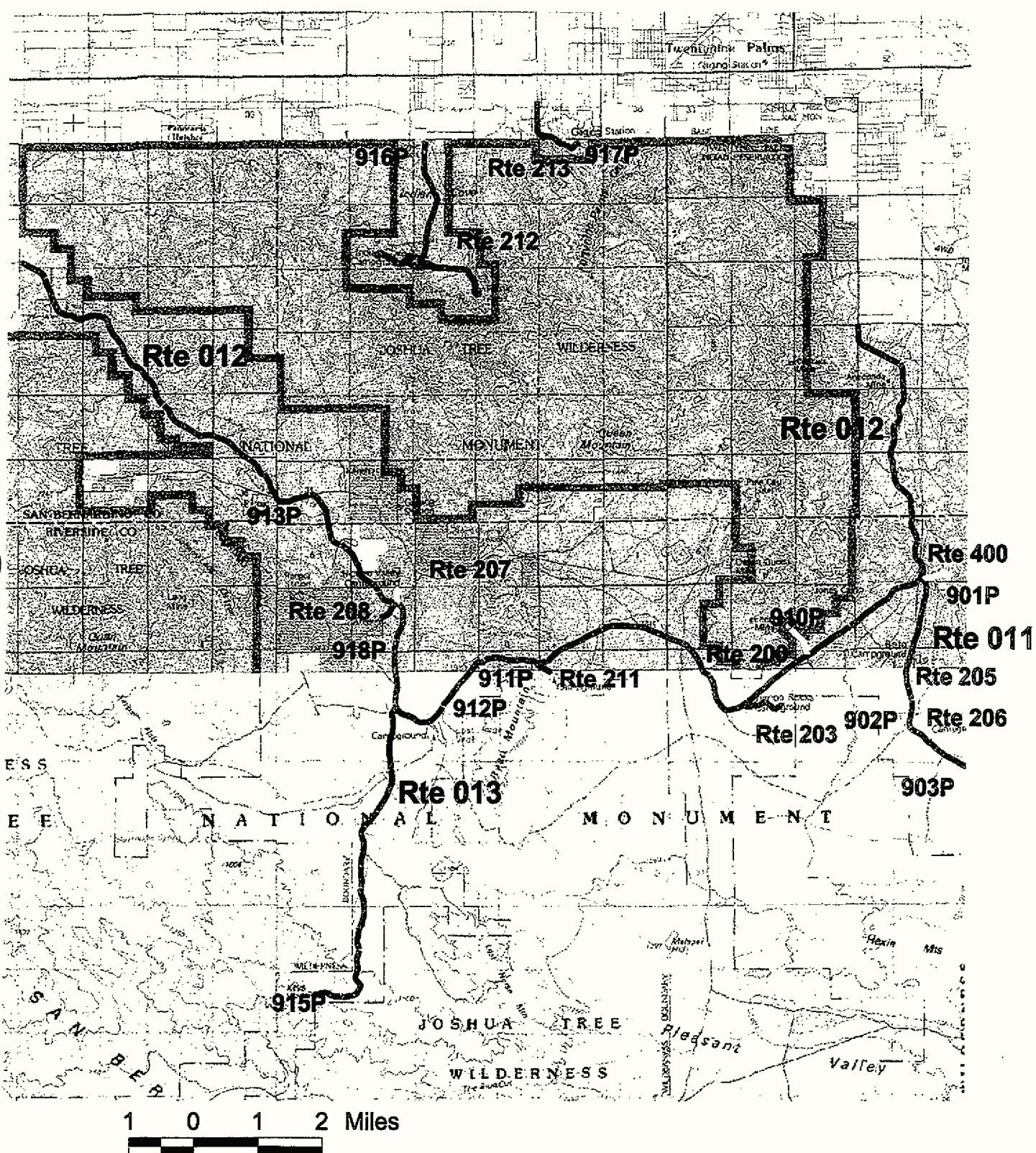
JOSHUA TREE NATIONAL PARK
ROUTE LOCATION
KEY MAP



2 0 2 4 Miles

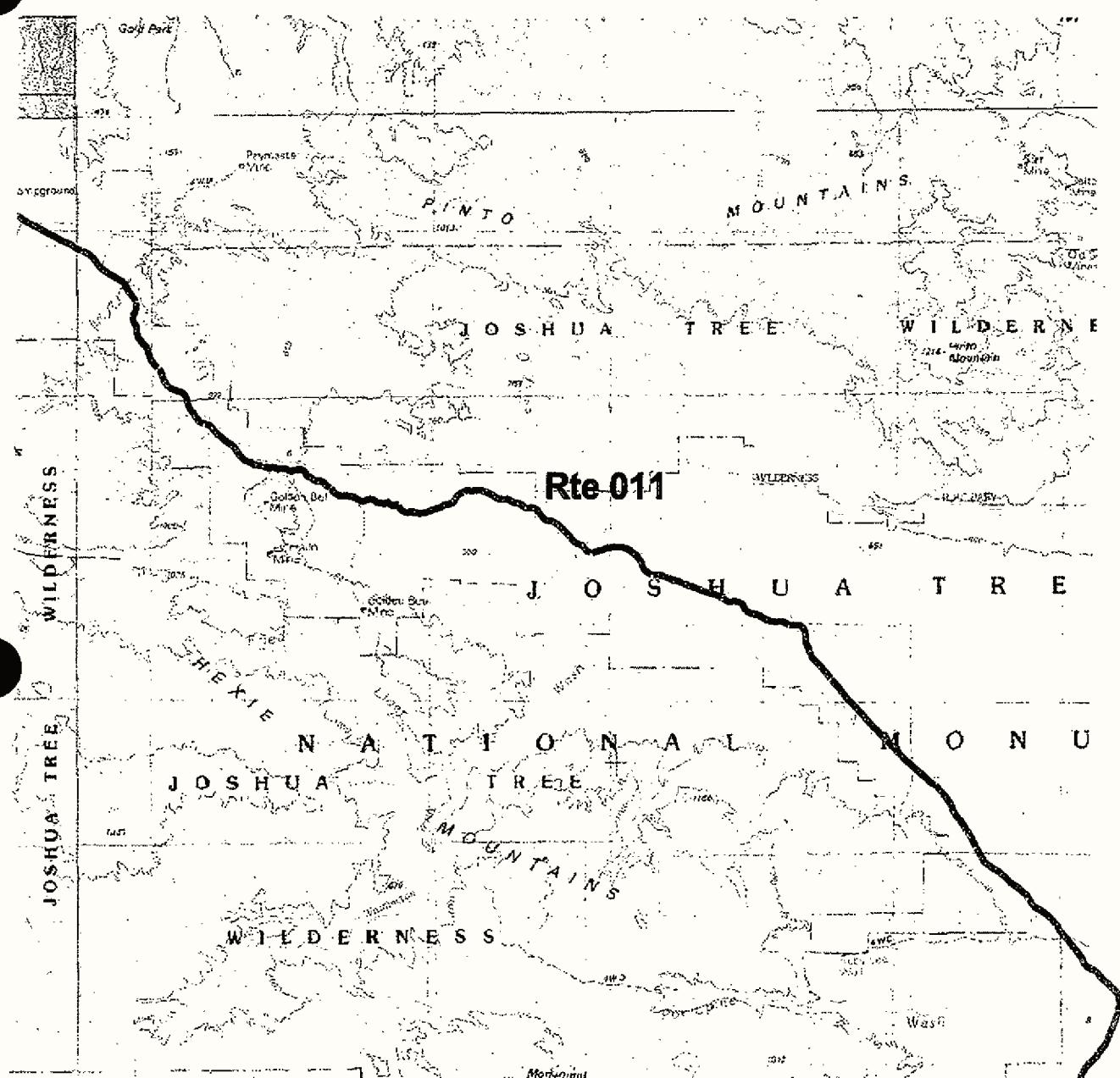
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JOSHUA TREE NATIONAL PARK
ROUTE LOCATION
AREA MAP 1



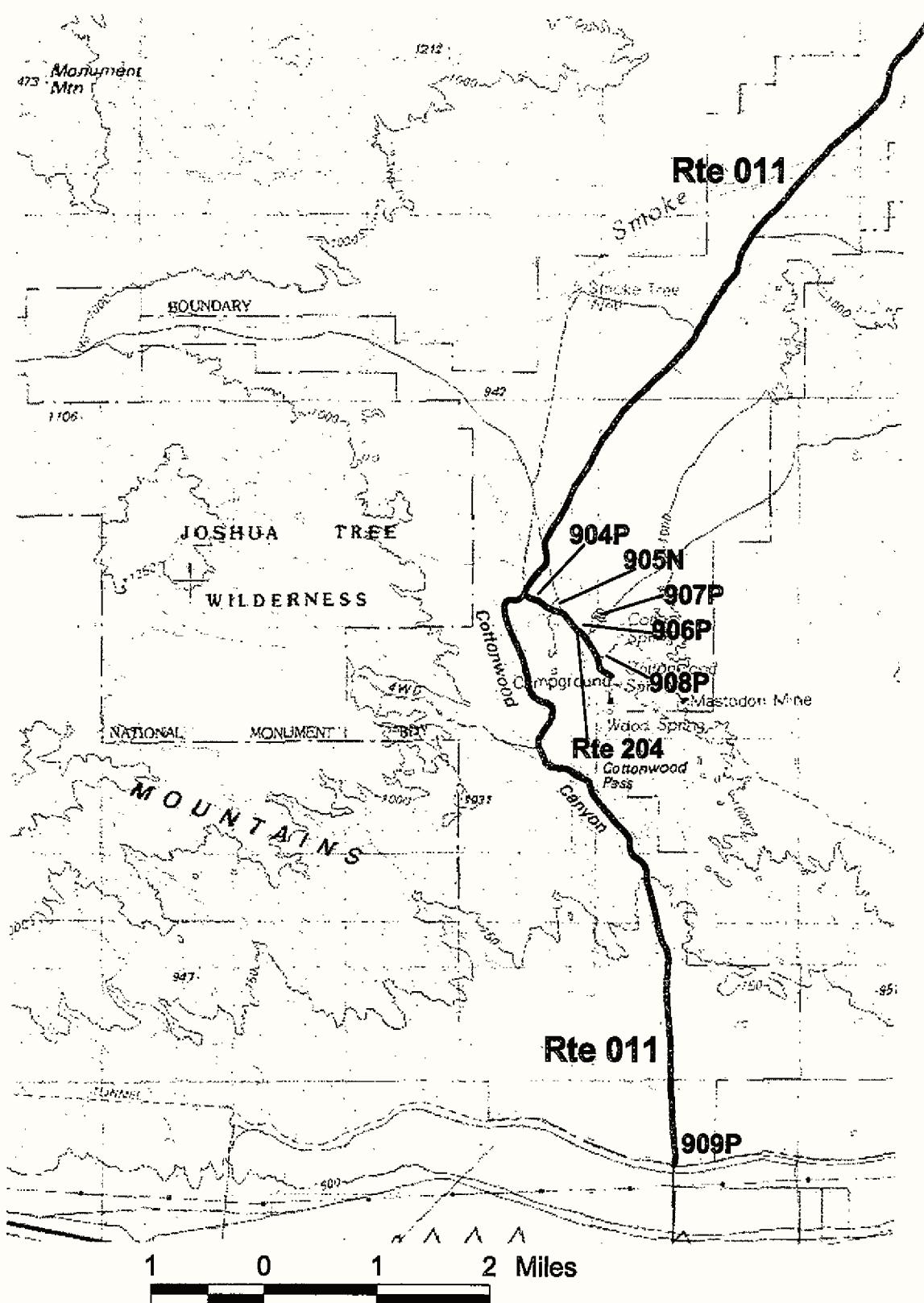
1 0 1 Miles

JOSHUA TREE NATIONAL PARK
ROUTE LOCATION
AREA MAP 2



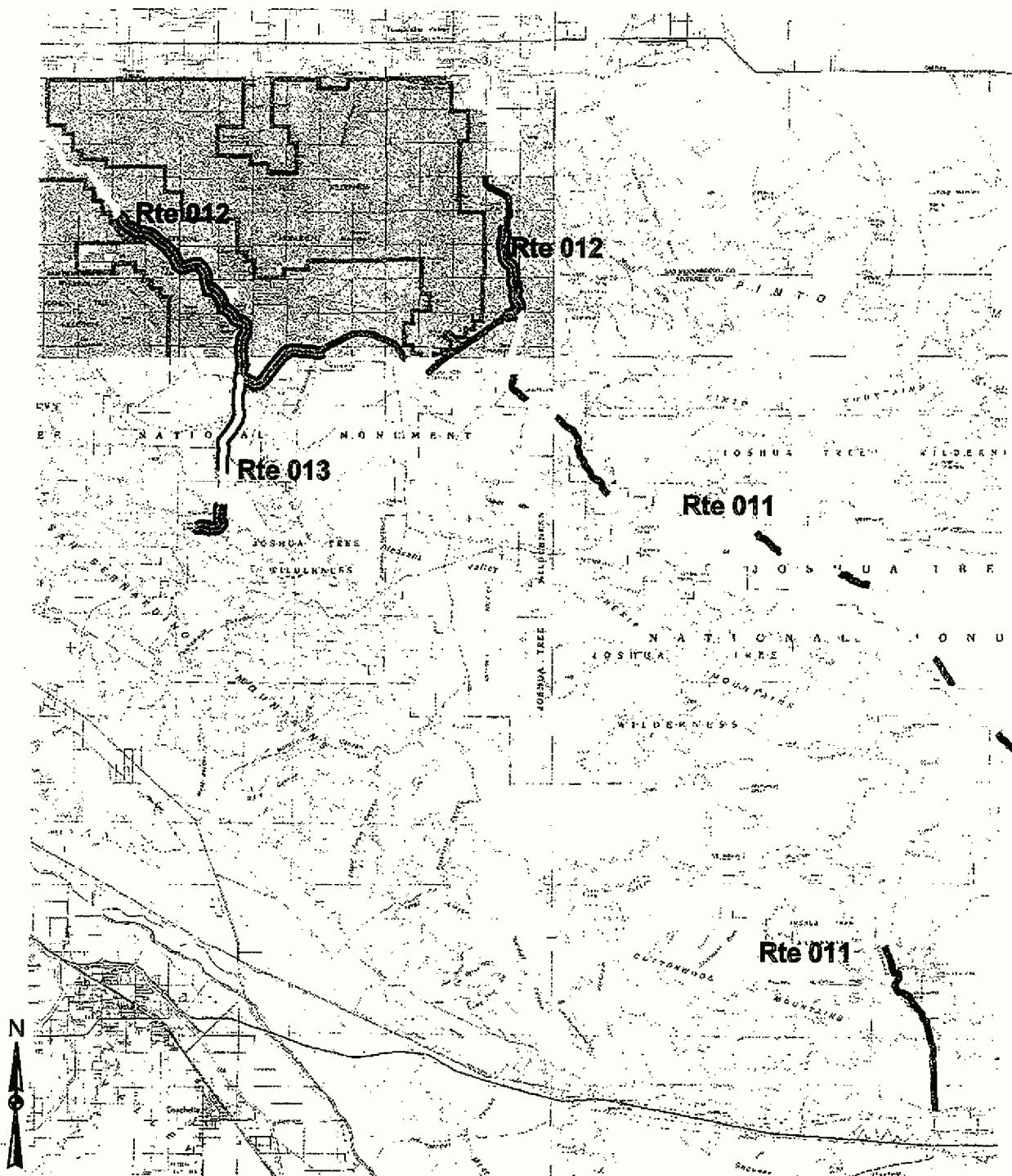
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1 0 1 2 Miles

JOSHUA TREE NATIONAL PARK
ROUTE LOCATION
AREA MAP 3



JOSHUA TREE NATIONAL PARK
ROUTE CONDITION
KEY MAP
PCR/DCR - Mile by Mile

FUNCTIONAL CLASSIFICATION I, II, VII, VIII ROADS



PCR Excellent Good Fair Poor

DCR Poor

* If the PCR rating is not available for a section, the SCR rating will be displayed

JOSHUA TREE NATIONAL PARK - JOTR - 8330 - ROUTE IDENTIFICATION LIST (NUMERIC)

Shading Color Key:		White = Paved Routes, ARAN Driven	Blue = All Paved Parking Areas
		Grey = Paved Routes, ARAN not Driven	Green = All Unpaved Parking Areas
Red Denotes Approximate Mileage		Yellow = Unpaved Routes, ARAN not Driven	

ROUTE NUMBER		ROUTE DESCRIPTION	ROUTE LENGTH	ROUTE NUMBER	ROUTE DESCRIPTION	ROUTE LENGTH
011	Pinto Basin Road	35.56 FROM RTE 12 TO SOUTH PARK BOUNDARY	35.56			2 1
012	East-West Highway	25.44 From 29 Palms Entr. to Joshua Tree Entr.	25.44			2 1
013	Key's View Road	5.44 From Rte 012 to Key's View (Rte 915)	5.44			2 1
100	Queen Valley Road	6.46 FROM RTE 12 TO HIDDEN VALLEY	6.46			2 2
101	Barker Dam Road	0.30 FROM QUEEN VALLEY RD (Rt. 100) TO BARKER DAM	0.30			1 3
102	Lost Horse Ranger Station Road	3.47 FROM RTE 12 W TO RTE 12 E	3.47			1 3
106	Lost Horse Mine Road	1.05 From Rte 013 to Lost Horse Mine	1.05			1 3
103	Old Dale Road	12.56 FROM RTE 11 TO N.PARK BOUNDARY	12.56			2 2
104	Black Eagle Mine Road	6.48 FROM RTE 11 TO EAST PARK BOUNDARY	6.48			2 2
105	Queen Valley Connector	2.31 FROM RTE 12 TO RTE 100	2.31			1 3
200	Split Rock Road	0.50 FROM RTE 12 TO SPLIT ROCK	0.50			2 3
201	Live Oak Road	0.55 LIVE OAK RD	0.55			2 4
202	Bedoo Road	5.04 BEDOO ROAD TO BOUNDARY	5.04			2 4
203	Jumbo Rocks Campground Road	3.09 From Rte 012 through Campground	3.09			2 3
204	Cottonwood Springs Campground & Trailhead	1.10 From Rte 011 to Trailhead	1.10			2 3
205	Belle Campground Road	0.10 From Rte 011 to Campground	0.10			2 3
206	White Tank Campground Road	0.10 From Rte 011 to Campground	0.10			2 3
207	Hidden Valley Campground	0.38 From Rte 012 through Campground	0.38			2 3
208	Hidden Valley Picnic	0.32 From Rte 012 to Rte 918	0.32			2 3
209	Ryan Campground Road	0.80 From Rte 012 through Campground	0.80			2 4
210	Covington Flats Area Roads	10.01 From North Boundary through Flats	10.01			2 4
211	Sheep Pass Campground Road	0.26 From Rte 012 to Campground	0.26			2 3
212	Indian Cove Campground	6.57 From North Boundary through Campground	6.57			2 3
213	49 Palms Oasis Campground	1.26 From CA 62 to Campground	1.26			2 3
214	Black Rock Campground Road	2.64 From North Boundary through Campground	2.64			2 3
215	Queen Valley Loops	3.52 From Rte 012 to Rte 012	3.52			2 4
300	Geology Tour Road	11.60 From Rte 012 ,MP 5.53 TO END IS ONE WAY LOOP	11.60			1 4
400	Maintenance Station Road	0.48 From Rte 012 to Maintenance	0.48			2 5
401	Park Rte 2985	0.19 From Rte 012 East of Sheep Pass to Mixing Pad	0.19			2 6
402	Park Rte 2976	0.47 From Rte 212 to Stockpile	0.47			2 6
403	Smoke Tree Well Road	2.77 Opposite Cottonwood Campground	2.77			1 6
404	Juniper Road	5.00 From Rte 013 at MP 1.07 to End	5.00			1 6
405	Keys Ranch Road	2.51 Ends at Rte 012	2.51			1 6
900	North Entrance VC Complex	Rte 012 at North Entrance				
901	Maintenance Yard Parking	Parking at end of rte 400				
902	Twin Tanks Backcountry Parking	From rte 011 on right				
903	2 Deserts Meet Parking	From rte 011 on right				
904	Cottonwood Visitors Centre	At Intersection of Rte 011 and Rte 204				
905	Cottonwood Residential Area	From Rte 204 on Left				
906	Cottonwood Dump Station	From Rte 204 on Left				
907	Cottonwood Campground Loops A & B	From Rte 204 on Left to end of Loops				
908	Cottonwood Spring Oasis Parking	From Rte 204 on Left				
909	Bajada All Trail Parking	From Rte 011 on Right				
910	Split Rock Picnic Area	End of rte 200				
911	Ryan Mountain Trailhead Parking	From Rte 012 East to Rte 012 West				
912	Oyster Bar Trailhead Parking	From Rte 012 East to Rte 012 West				
913	Quail Springs Parking Area	From Rte 012 on Left				
914	Joshua Tree Entrance Station	From Rte 012 on Left				
915	Keys View Parking	Loop at end of Rte 013				
916	Indian Cove Contact Station	From Rte 212 on right				
917	49 Palms Oasis Parking	Parking at end of rte 213				
918	Hidden Valley Picnic Parking	From end of Rte 208				

JOSHUA TREE NATIONAL PARK - JOTR - 8330 - ROUTE IDENTIFICATION LIST (ALPHABETIC)

Shading Color Key:

Red Denotes Approximate Mileage

White = Paved Routes, ARAN Driven

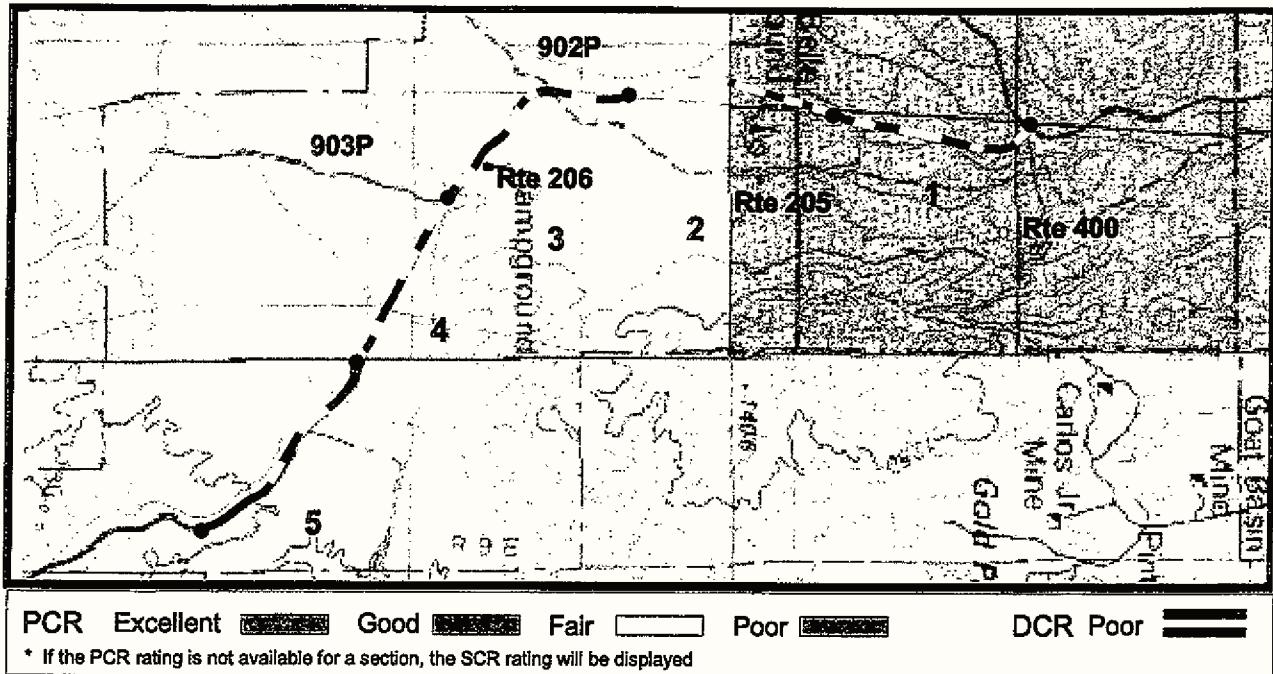
Gray = Paved Routes, ARAN not Driven

Yellow = Unpaved Routes, ARAN not Driven

Blue = All Paved Parking Areas

Green = All Unpaved Parking Areas

RTE	ROUTE NAME	TYPE OF ROUTE	ROUTE DESCRIPTION	PAVED MILES	IN PAVED MILES	LEAVES	ENTERS	PARKS
903	2 Deserts Meet Parking		From rte 011 on right					
213	49 Palms Oasis Campground	1.26	From CA 62 to Campground	1.26		2	3	
917	49 Palms Oasis Parking		Parking at end of rte 213					
909	Bajada All Trail Parking		From Rte 011 on Right					
101	Barker Dam Road	0.30	FROM QUEEN VALLEY RD (Rt. 100) TO BARKER DAM	0.30		1	3	
202	Bedoo Road	5.04	BEDOO ROAD TO BOUNDARY	5.04		2	4	
205	Belle Campground Road	0.10	From Rte 011 to Campground	0.10		2	3	
104	Black Eagle Mine Road	6.48	FROM RTE 11 TO EAST PARK BOUNDARY	6.48		2	2	
214	Black Rock Campground Road	2.64	From North Boundary through Campground	2.64		2	3	
907	Cottonwood Campground Loops A & B		From Rte 204 on Left to end of Loops					
906	Cottonwood Dump Station		From Rte 204 on Left					
905	Cottonwood Residential Area		From Rte 204 on Left					
908	Cottonwood Spring Oasis Parking		From Rte 204 on Left					
204	Cottonwood Springs Campground & Trailhead	1.10	From Rte 011 to Trailhead	1.10		2	3	
904	Cottonwood Visitors Centre		At intersection of Rte 011 and Rte 204					
210	Covington Flats Area Roads	10.01	From North Boundary through Flats	10.01		2	4	
012	East-West Highway	25.44	From 29 Palms Entr. to Joshua Tree Entr.	25.44		2	1	
300	Geology Tour Road	11.60	From Rte 012 ,MP 5.53 TO END IS ONE WAY LOOP	11.60		1	4	
207	Hidden Valley Campground	0.38	From Rte 012 through Campground	0.38		2	3	
208	Hidden Valley Picnic	0.32	From Rte 012 to Rte 918	0.32		2	3	
918	Hidden Valley Parking		From end of Rte 208					
212	Indian Cove Campground	6.57	From North Boundary through Campground	6.57		2	3	
916	Indian Cove Contact Station		From Rte 212 on right					
914	Joshua Tree Entrance Station		From Rte 012 on Left					
203	Jumbo Rocks Campground Road	3.09	From Rte 012 through Campground	3.09		2	3	
404	Juniper Road	5.00	From Rte 013 at MP 1.07 to End	5.00		1	6	
405	Keys Ranch Road	2.51	Ends at Rte 012	2.51		1	6	
915	Keys View Parking		Loop at end of Rte 013					
013	Key's View Road	5.44	From Rte 012 to Key's View (Rte 915)	5.44		2	1	
201	Live Oak Road	0.55	LIVE OAK RD	0.55		2	4	
106	Lost Horse Mine Road	1.05	From Rte 013 to Lost Horse Mine	1.05		1	3	
102	Lost Horse Ranger Station Road	3.47	FROM RTE 12 W TO RTE 12 E	3.47		1	3	
400	Maintenance Station Road	0.48	From Rte 012 to Maintenance	0.48		2	5	
901	Maintenance Yard Parking		Parking at end of rte 400					
900	North Entrance VC Complex		Rte 012 at North Entrance					
103	Old Dale Road	12.56	FROM RTE 11 TO N.PARK BOUNDARY	12.56		2	2	
912	Oyster Bar Trailhead Parking		From Rte 012 East to Rte 012 West					
402	Park Rte 2976	0.47	From Rte 212 to Stockpile	0.47		2	6	
401	Park Rte 2985	0.19	From Rte 012 East of Sheep Pass to Mixing Pad	0.19		2	6	
011	Pinto Basin Road	35.56	FROM RTE 12 TO SOUTH PARK BOUNDARY	35.56		2	1	
913	Quail Springs Parking Area		From Rte 012 on Left					
105	Queen Valley Connector	2.31	FROM RTE 12 TO RTE 100	2.31		1	3	
215	Queen Valley Loops	3.52	From Rte 012 to Rte 012	3.52		2	4	
100	Queen Valley Road	6.46	FROM RTE 12 TO HIDDEN VALLEY	6.46		2	2	
209	Ryan Campground Road	0.80	From Rte 012 through Campground	0.80		2	4	
911	Ryan Mountain Trailhead Parking		From Rte 012 East to Rte 012 West					
211	Sheep Pass Campground Road	0.26	From Rte 012 to Campground	0.26		2	3	
403	Smoke Tree Well Road	2.77	Opposite Cottonwood Campground	2.77		1	6	
910	Split Rock Picnic Area		End of rte 200					
200	Split Rock Road	0.50	FROM RTE 12 TO SPLIT ROCK	0.50		2	3	
902	Twin Tanks Backcountry Parking		From Rte 011 on right					
206	White Tank Campground Road	0.10	From Rte 011 to Campground	0.10		2	3	



Western Region
JOTR: Joshua Tree NP

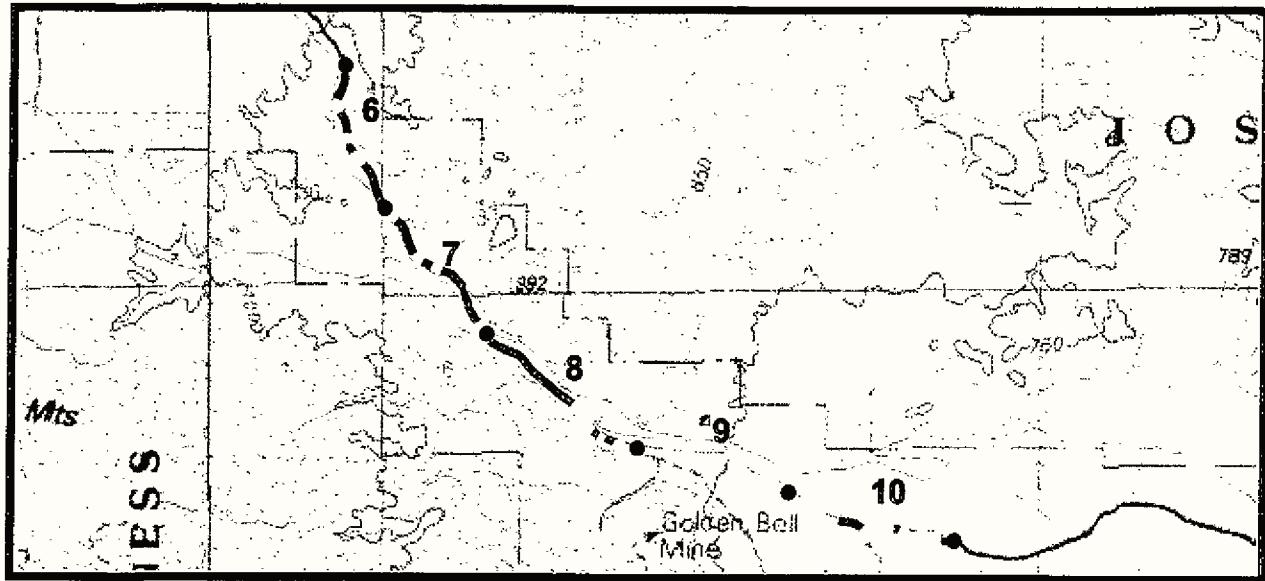
ROUTE: 011 Pinto Basin Road

TOTAL LENGTH: 35.56 Miles

Section Number	1	2	3	4	5
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
AADT	363	363	363	363	363
SADT	391	391	391	391	391
ADT Date	NA	NA	NA	NA	NA
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	24	24	24	24	24
Lane Width (ft)	12	12	12	12	12
Shoulder Width (ft)	3	6	6	6	6
Roadway Condition Information					
PCR (Pavement Condition Rating)	83	83	86	83	86
Roughness Index	76	76	74	73	77
SCR (Surface Condition Rating)	88	88	93	89	91
Alligator Cracking	100	100	100	100	100
Rutting Index	86	82	90	84	88
Patching Index	100	100	100	100	100
Transverse Cracking	99	100	100	100	100
Longitudinal Cracking	99	100	100	100	100
Shoulder Condition Rating	Fair	Fair	Fair	Fair	Fair
Drainage Condition Rating	Good	Good	Good	Good	Good

COMMENTS:

- MP 0.00 Begin at Rte 012;
- MP 0.00 Pic # 2-22 - Typical Section
- MP 0.04 Intersection Left (Rte 400)
- MP 1.31 Intersection Left (Rte 205)
- MP 2.19 Intersection Right (Rte 902)
- MP 2.68 Intersection Left (Rte 206)
- MP 3.12 Intersection Right (Rte 903)



PCR Excellent ████ Good ████ Fair ████ Poor ████ DCR Poor ████

* If the PCR rating is not available for a section, the SCR rating will be displayed

Western Region
JOTR : Joshua Tree NP

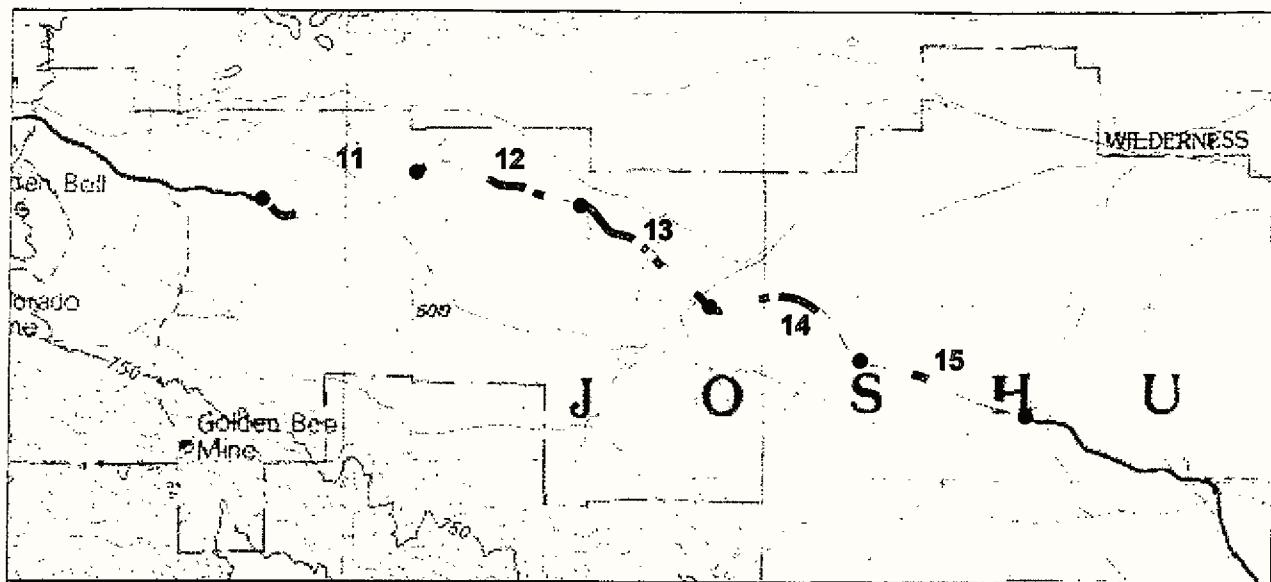
ROUTE: 011 Pinto Basin Road

TOTAL LENGTH: 35.56 Miles

Section Number	6	7	8	9	10
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
AADT	NA	NA	NA	NA	NA
SADT	NA	NA	NA	NA	NA
ADT Date	NA	NA	NA	NA	NA
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	24	24	24	20	20
Lane Width (ft)	12	12	12	10	10
Shoulder Width (ft)	6	6	6	6	6
Roadway Condition Information					
PCR (Pavement Condition Rating)	86	86	82	72	76
Roughness Index	75	77	66	41	52
SCR (Surface Condition Rating)	94	93	93	92	92
Alligator Cracking	100	100	100	100	100
Rutting Index	92	89	90	88	88
Patching Index	100	100	100	100	100
Transverse Cracking	100	100	100	100	100
Longitudinal Cracking	100	100	100	100	100
Shoulder Condition Rating	Fair	Fair	Fair	Good	Good
Drainage Condition Rating	Good	Good	Good	Good	Good

COMMENTS:

- MP 5.60 Pic #2-23 - Typical Section
- MP 7.30 Pavement Change
- MP 7.50 Pic #2-24 - Typical Section



PCR Excellent ████ Good ████ Fair ████ Poor ████

* If the PCR rating is not available for a section, the SCR rating will be displayed

DCR Poor ████

Western Region
JOTR: Joshua Tree NP

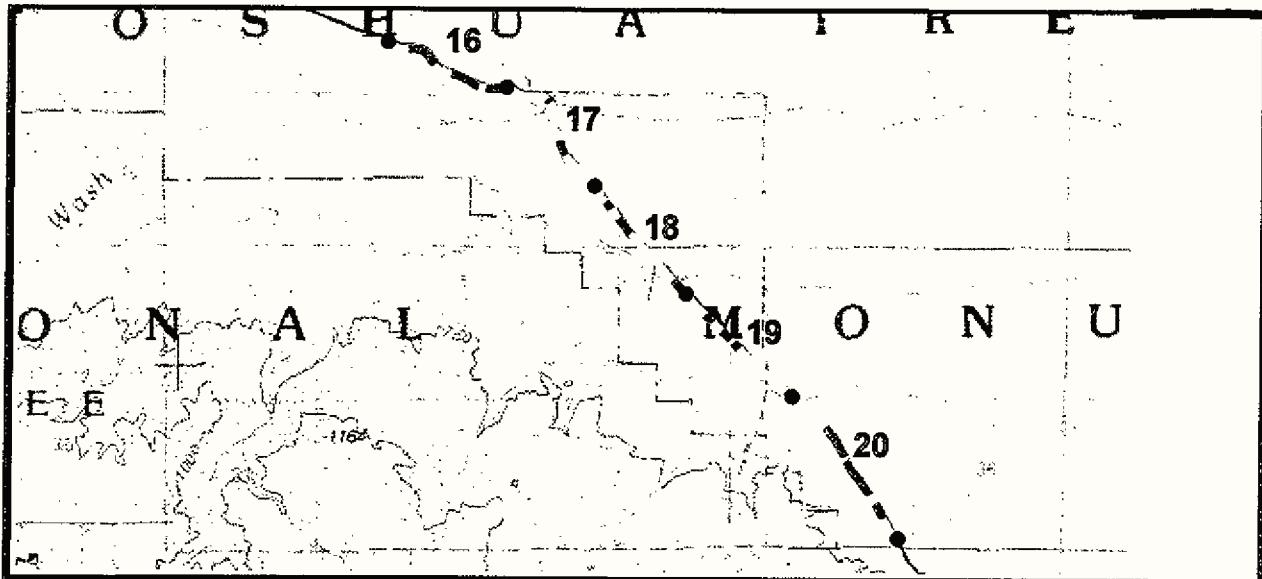
ROUTE: 011 Pinto Basin Road

TOTAL LENGTH: 35.56 Miles

Section Number	11	12	13	14	15
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
AADT	NA	NA	NA	NA	NA
SADT	NA	NA	NA	NA	NA
ADT Date	NA	NA	NA	NA	NA
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	20	20	22	22	22
Lane Width (ft)	10	10	11	11	11
Shoulder Width (ft)	6	6	5	5	5
Roadway Condition Information					
PCR (Pavement Condition Rating)	79	80	85	81	80
Roughness Index	58	62	72	62	62
SCR (Surface Condition Rating)	92	92	94	93	92
Alligator Cracking	100	100	100	100	100
Rutting Index	87	85	87	86	83
Patching Index	100	100	100	100	100
Transverse Cracking	100	100	100	100	100
Longitudinal Cracking	100	100	100	100	100
Shoulder Condition Rating	Good	Good	Good	Good	Good
Drainage Condition Rating	Good	Good	Good	Good	Good

COMMENTS:

MP 10.80 Start Old Chip Seal
MP 12.00 Pic #2-25 - Typical Section



PCR Excellent

Good

Fair

Poor

DCR Poor

* If the PCR rating is not available for a section, the SCR rating will be displayed

Western Region

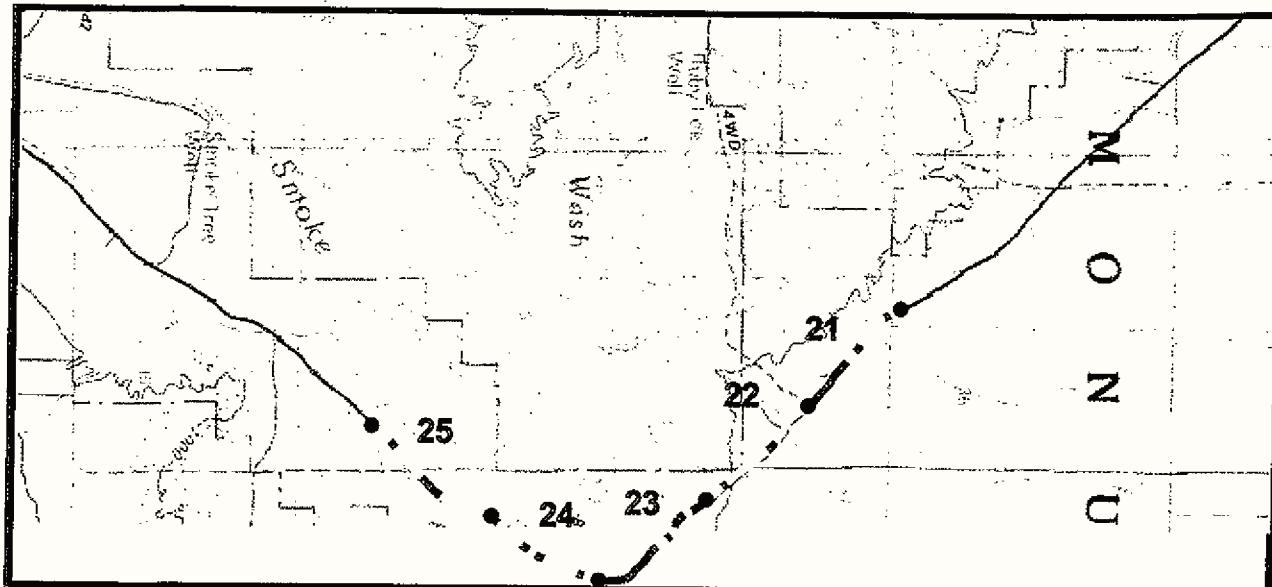
JOTR : Joshua Tree NP

ROUTE: 011 Pinto Basin Road

TOTAL LENGTH: 35.56 Miles

Section Number	16	17	18	19	20
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
AADT	NA	NA	NA	NA	NA
SADT	NA	NA	NA	NA	NA
ADT Date	NA	NA	NA	NA	NA
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	22	22	22	22	22
Lane Width (ft)	11	11	11	11	11
Shoulder Width (ft)	5	5	5	5	5
Roadway Condition Information					
PCR (Pavement Condition Rating)	84	81	83	81	88
Roughness Index	69	64	70	65	80
SCR (Surface Condition Rating)	95	92	92	91	93
Alligator Cracking	100	100	100	100	100
Rutting Index	90	83	83	82	85
Patching Index	100	100	100	100	100
Transverse Cracking	100	100	100	100	100
Longitudinal Cracking	100	100	100	100	100
Shoulder Condition Rating	Good	Good	Good	Good	Good
Drainage Condition Rating	Good	Good	Good	Good	Good

COMMENTS:



PCR Excellent ■■■■■ Good ■■■■■ Fair ■■■■ Poor ■■■■■ DCR Poor ■■■■■
 * If the PCR rating is not available for a section, the SCR rating will be displayed

Western Region
 JOTR: Joshua Tree NP

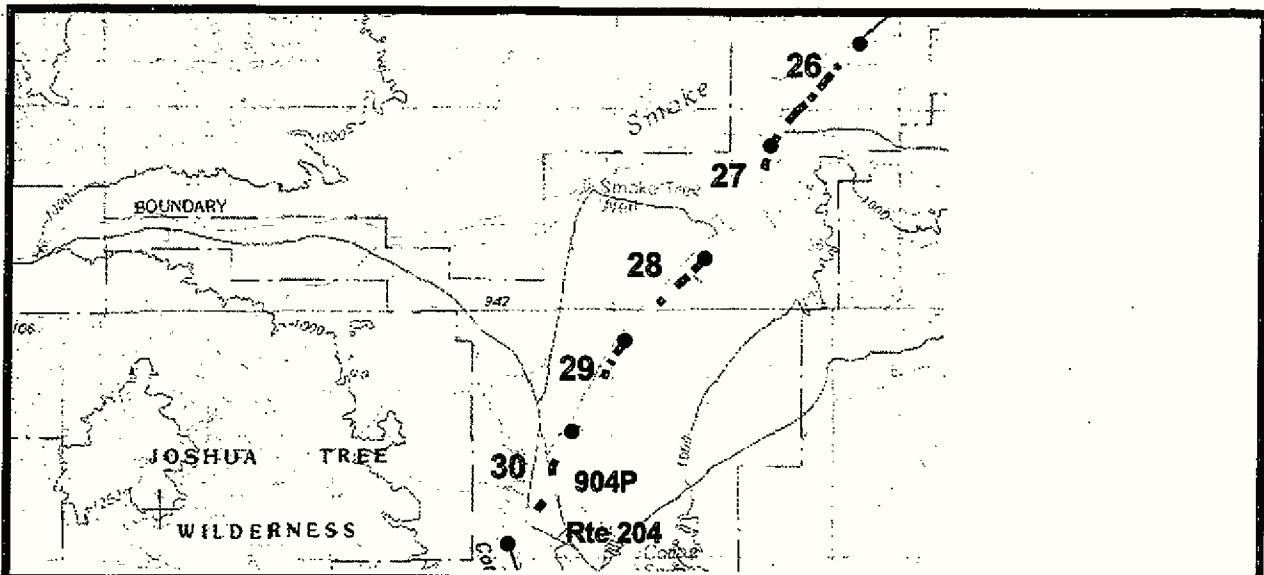
ROUTE: 011 Pinto Basin Road

TOTAL LENGTH: 35.56 Miles

Section Number	21	22	23	24	25
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
AADT	NA	NA	NA	NA	NA
SADT	NA	NA	NA	NA	NA
ADT Date	NA	NA	NA	NA	NA
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	22	22	22	22	22
Lane Width (ft)	11	11	11	11	11
Shoulder Width (ft)	5	5	5	5	3
Roadway Condition Information					
PCR (Pavement Condition Rating)	83	80	88	82	79
Roughness Index	70	64	77	65	61
SCR (Surface Condition Rating)	91	91	95	93	92
Alligator Cracking	100	100	100	100	100
Rutting Index	83	81	90	86	83
Patching Index	100	100	100	100	100
Transverse Cracking	100	100	100	100	100
Longitudinal Cracking	100	100	100	100	100
Shoulder Condition Rating	Good	Good	Good	Good	Fair
Drainage Condition Rating	Good	Good	Good	Good	Good

COMMENTS:

ROUTE: 011 Pinto Basin Road



PCR Excellent Good Fair Poor DCR Poor

* If the PCR rating is not available for a section, the SCR rating will be displayed

Western Region
JOTR: Joshua Tree NP

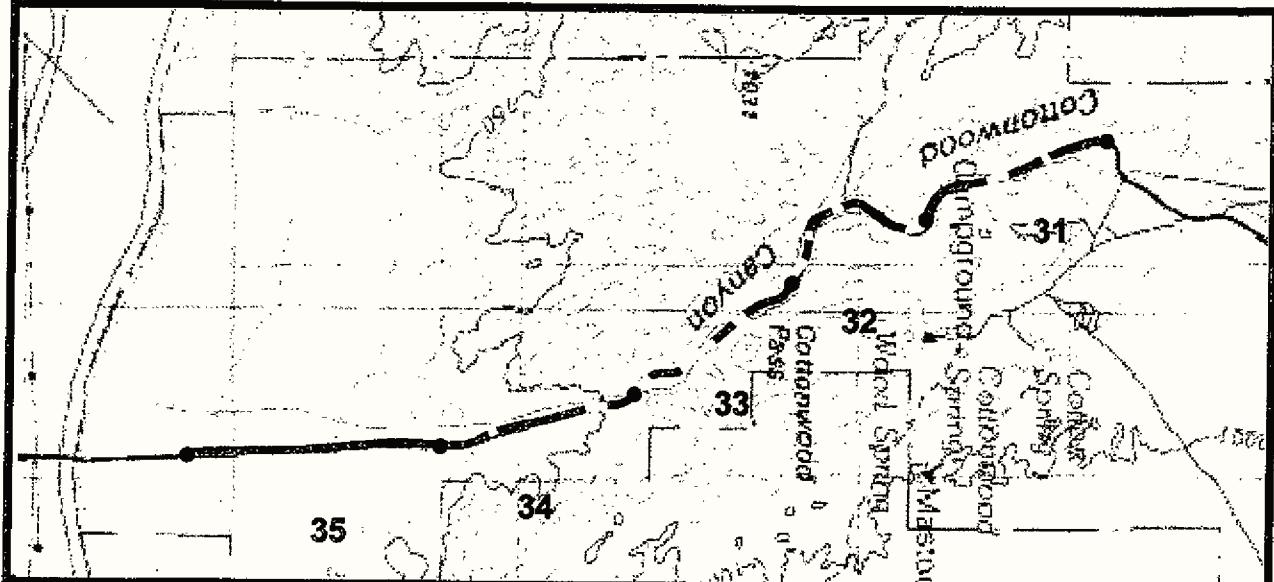
ROUTE: 011 Pinto Basin Road

TOTAL LENGTH: 35.56 Miles

Section Number	26	27	28	29	30
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
AADT	NA	NA	NA	NA	NA
SADT	NA	NA	NA	NA	NA
ADT Date	NA	NA	NA	NA	NA
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	22	22	22	22	22
Lane Width (ft)	11	11	11	11	11
Shoulder Width (ft)	3	3	3	3	3
Roadway Condition Information					
PCR (Pavement Condition Rating)	83	80	81	83	79
Roughness Index	71	62	69	76	62
SCR (Surface Condition Rating)	90	93	89	88	91
Alligator Cracking	100	100	100	100	100
Rutting Index	84	89	83	83	85
Patching Index	100	100	100	100	100
Transverse Cracking	100	100	100	100	100
Longitudinal Cracking	100	100	100	100	100
Shoulder Condition Rating	Fair	Fair	Fair	Fair	Fair
Drainage Condition Rating	Good	Good	Good	Good	Good

COMMENTS:

- MP 25.20 Pavement Change
- MP 29.66 Intersection Left (Rte 904)
- MP 29.72 Intersection Left (Rte 204)



PCR Excellent ████ Good ████ Fair ████ Poor ████ DCR Poor ████

* If the PCR rating is not available for a section, the SCR rating will be displayed

Western Region
JOTR: Joshua Tree NP

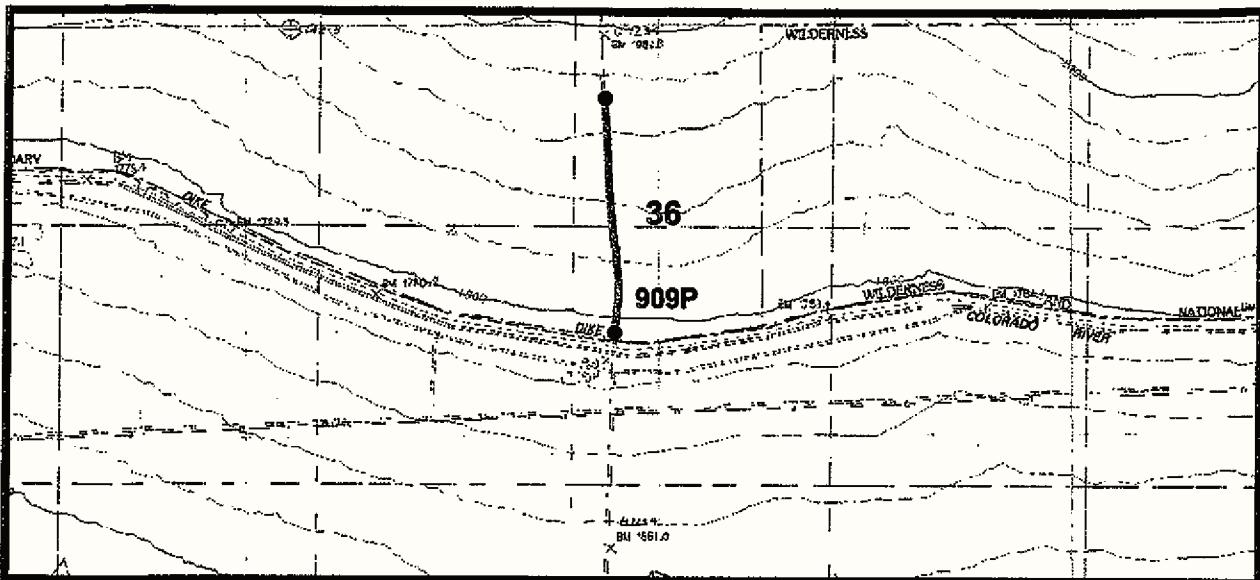
ROUTE: 011 Pinto Basin Road

TOTAL LENGTH: 35.56 Miles

Section Number	31	32	33	34	35
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
AADT	NA	NA	NA	NA	NA
SADT	NA	NA	NA	NA	NA
ADT Date	NA	NA	NA	NA	NA
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	26	26	26	26	26
Lane Width (ft)	13	13	13	13	13
Shoulder Width (ft)	4	4	4	4	4
Roadway Condition Information					
PCR (Pavement Condition Rating)	91	87	84	91	93
Roughness Index	86	76	69	93	96
SCR (Surface Condition Rating)	94	94	94	90	90
Alligator Cracking	100	100	100	100	100
Rutting Index	88	87	88	79	80
Patching Index	100	100	100	100	100
Transverse Cracking	100	100	100	100	100
Longitudinal Cracking	100	100	100	100	100
Shoulder Condition Rating	Good	Good	Good	Good	Good
Drainage Condition Rating	Good	Good	Good	Good	Good

COMMENTS:

MP 31.50 Pavement Change



PCR Excellent Good Fair Poor DCR Poor

* If the PCR rating is not available for a section, the SCR rating will be displayed

Western Region
JOTR: Joshua Tree NP

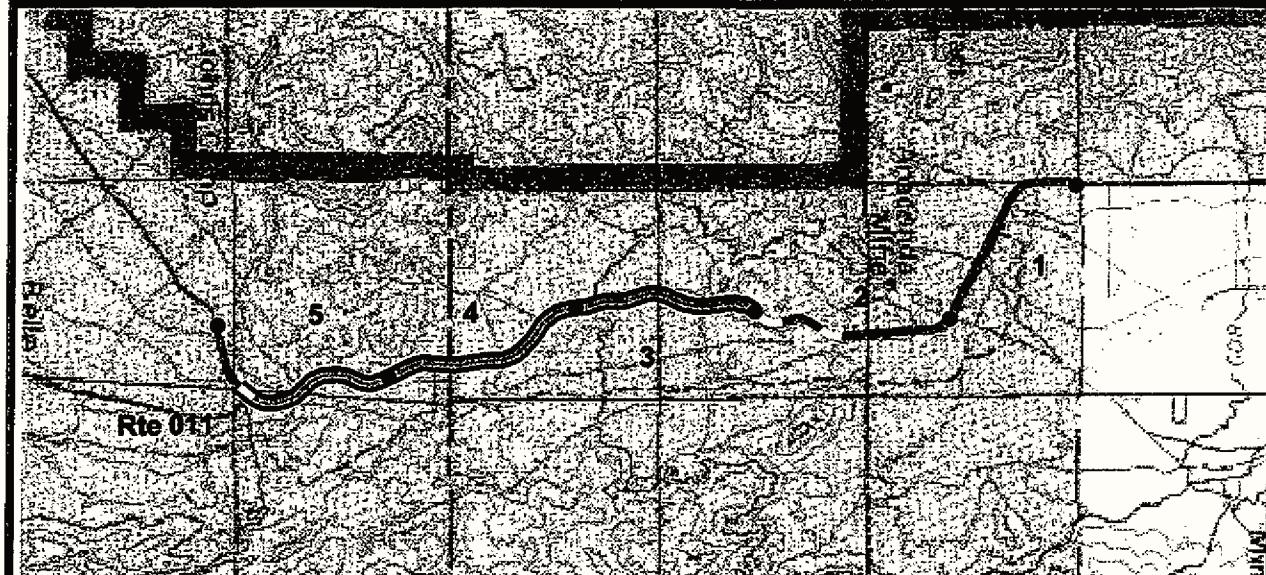
ROUTE: 011 Pinto Basin Road

TOTAL LENGTH: 35.56 Miles

Section Number	36				
Section Length (mi)	0.56				
AADT	NA				
SADT	NA				
ADT Date	NA				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	26				
Lane Width (ft)	13				
Shoulder Width (ft)	4				
Roadway Condition Information					
PCR (Pavement Condition Rating)	91				
Roughness Index	95				
SCR (Surface Condition Rating)	88				
Alligator Cracking	100				
Rutting Index	76				
Patching Index	100				
Transverse Cracking	100				
Longitudinal Cracking	100				
Shoulder Condition Rating	Good				
Drainage Condition Rating	Good				

COMMENTS:

MP 35.27 Intersection Left (Rte 909)
MP 35.54 End of Rte - Park Boundary



PCR

Excellent



Good



Fair



Poor



DCR

Poor



* If the PCR rating is not available for a section, the SCR rating will be displayed

Western Region

JOTR: Joshua Tree NP

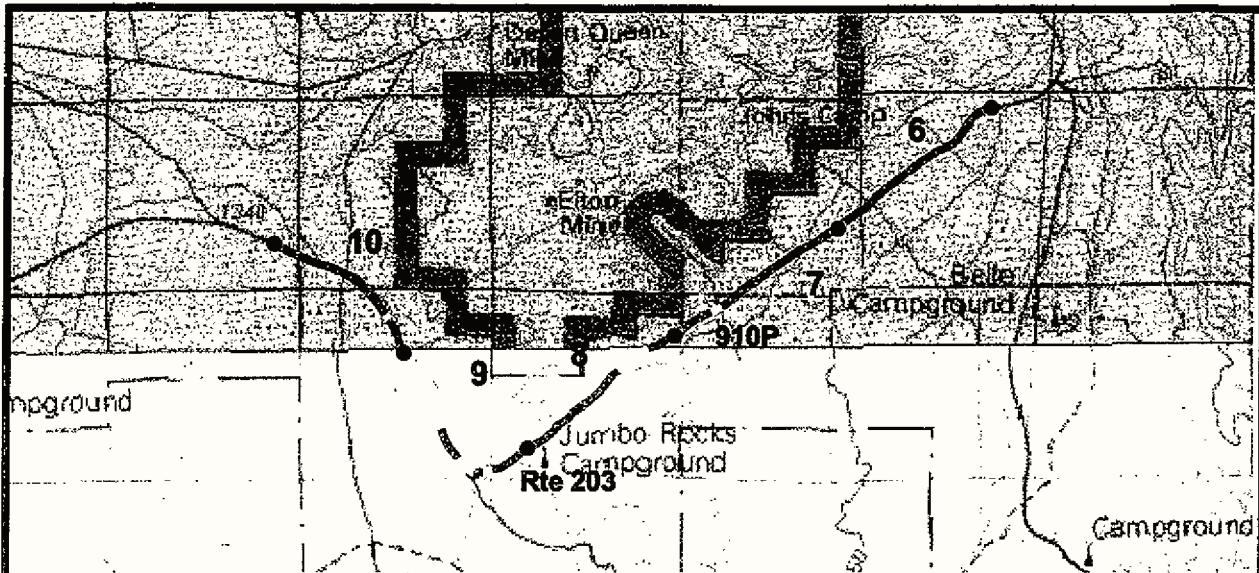
ROUTE: 012 East - West Highway

TOTAL LENGTH: 25.44 Miles

Section Number	1	2	3	4	5
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
AADT	NA	NA	NA	NA	NA
SADT	NA	NA	NA	NA	NA
ADT Date	NA	NA	NA	NA	NA
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	24	24	21	21	21
Lane Width (ft)	12	12	10	10	10
Shoulder Width (ft)	6	4	2	2	2
Roadway Condition Information					
PCR (Pavement Condition Rating)	29	33	29	21	26
Roughness Index	67	70	72	53	61
SCR (Surface Condition Rating)	5	8	0	0	3
Alligator Cracking	92	90	89	97	89
Rutting Index	90	91	84	88	85
Patching Index	100	100	100	100	100
Transverse Cracking	8	11	0	0	5
Longitudinal Cracking	91	89	88	94	89
Shoulder Condition Rating	Fair	Fair	Poor	Poor	Poor
Drainage Condition Rating	Fair	Fair	Poor	Poor	Poor

COMMENTS:

- MP 0.00 Begin Rte at North Boundary
- MP 0.00 Pic #1-01 - Typical Section
- MP 0.60 Pic #1-03 - Sealed Cracks / Typical
- MP 1.70 Pic #1-04 - Curb & Gutter / Typical
- MP 2.40 Pic #1-05 - Eroded Edge of Pavement
- MP 4.40 Pic #1-06 - Transverse Cracking
- MP 4.59 Intersection Left (Rte 011)
- MP 4.60 Pic #1-07 - Intersection Rte 011
- MP 4.70 Pic #1-08 - Typical Section



PCR Excellent ████ Good ████ Fair ████ Poor ████ DCR Poor ████

* If the PCR rating is not available for a section, the SCR rating will be displayed

Western Region
JOTR : Joshua Tree NP

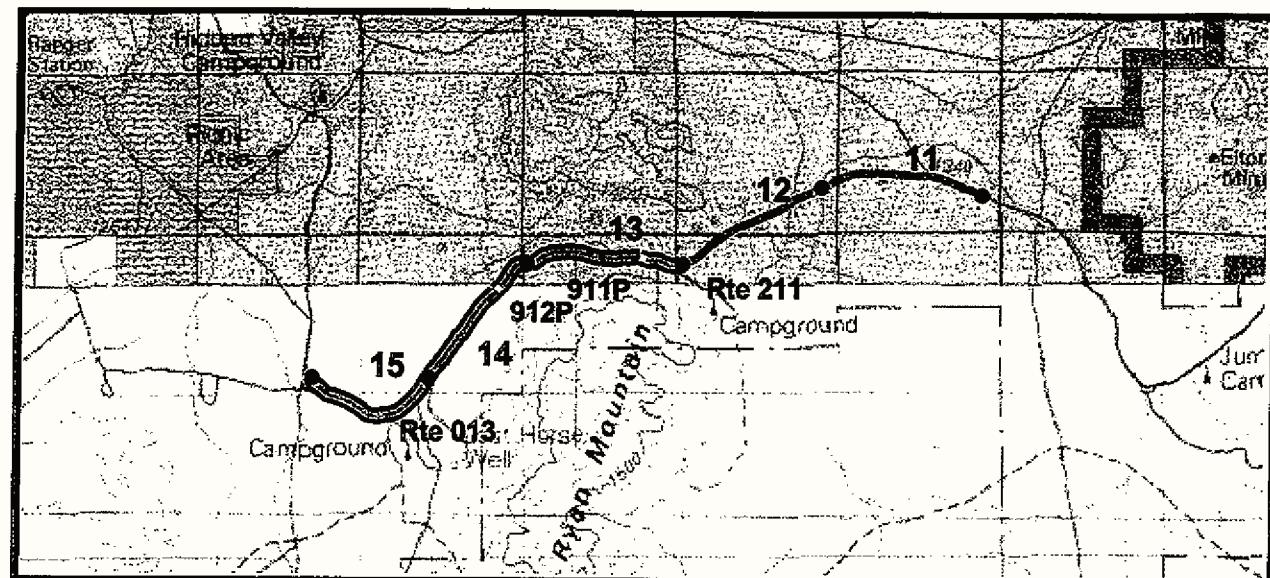
ROUTE: 012 East - West Highway

TOTAL LENGTH: 25.44 Miles

Section Number	6	7	8	9	10
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
AADT	NA	NA	NA	NA	NA
SADT	NA	NA	NA	NA	NA
ADT Date	NA	NA	NA	NA	NA
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	37	26	26	26	26
Lane Width (ft)	15	13	13	13	13
Shoulder Width (ft)	6	3	6	7	6
Roadway Condition Information					
PCR (Pavement Condition Rating)	36	37	35	42	31
Roughness Index	88	91	81	92	68
SCR (Surface Condition Rating)	2	0	5	8	7
Alligator Cracking	90	87	86	86	85
Rutting Index	84	85	82	90	89
Patching Index	100	100	100	100	100
Transverse Cracking	2	0	8	16	23
Longitudinal Cracking	84	84	86	90	83
Shoulder Condition Rating	Good	Poor	Fair	Fair	Fair
Drainage Condition Rating	Good	Fair	Fair	Fair	Fair

COMMENTS:

- MP 6.62 Intersection Right
- MP 6.78 Intersection Left (Rte 910)
- MP 7.20 Low Water Crossing
- MP 8.04 Intersection Left (Rte 203)
- MP 9.50 Pic #1-11 - Typical Section
- MP 9.51 Intersection Geology Tour Rd.



PCR Excellent Good Fair Poor

DCR Poor

* If the PCR rating is not available for a section, the SCR rating will be displayed

Western Region
JOTR : Joshua Tree NP

ROUTE: 012 East - West Highway

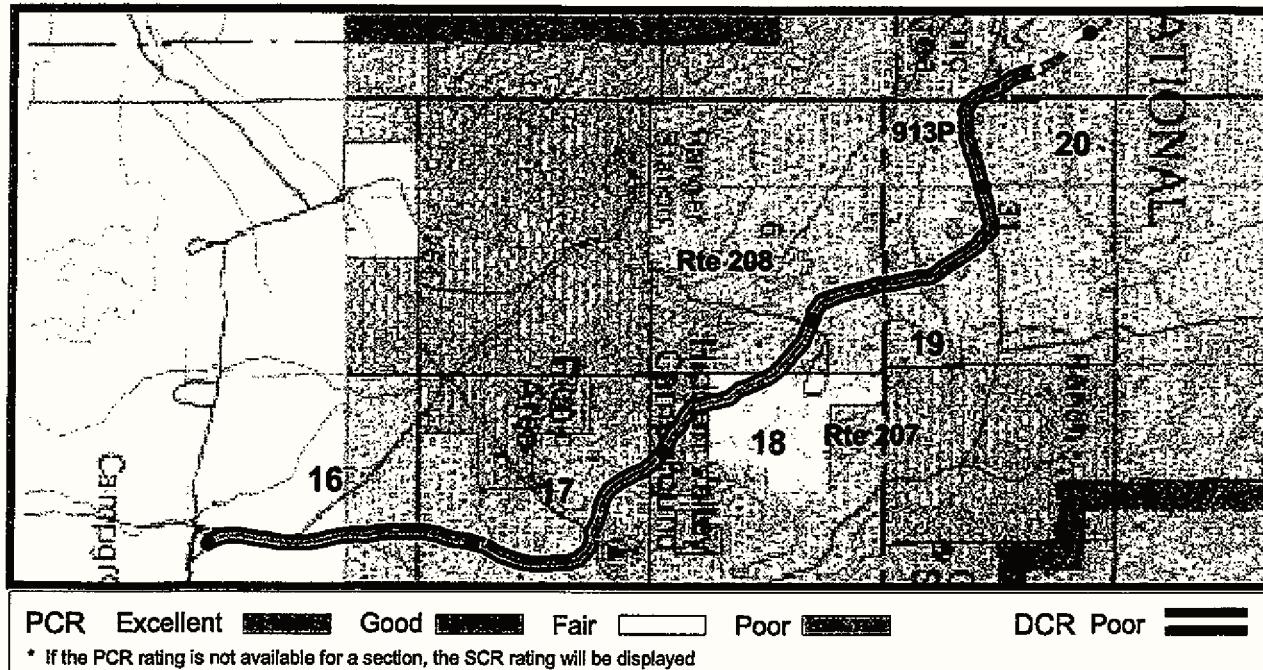
TOTAL LENGTH: 25.44 Miles

Section Number	11	12	13	14	15
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
AADT	NA	NA	NA	NA	NA
SADT	NA	NA	NA	NA	NA
ADT Date	NA	NA	NA	NA	NA
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	21	21	21	21	21
Lane Width (ft)	10	10	10	10	10
Shoulder Width (ft)	3	3	3	3	3
Roadway Condition Information					
PCR (Pavement Condition Rating)	24	19	25	18	16
Roughness Index	60	47	53	45	37
SCR (Surface Condition Rating)	0	0	7	0	3
Alligator Cracking	93	93	95	96	96
Rutting Index	82	81	83	87	88
Patching Index	100	100	100	100	100
Transverse Cracking	0	0	8	0	5
Longitudinal Cracking	93	94	94	94	94
Shoulder Condition Rating	Poor	Poor	Poor	Poor	Poor
Drainage Condition Rating	Fair	Fair	Poor	Poor	Poor

COMMENTS:

- MP 10.40 Pic #1-12 - Typical / BlockCracking
- MP 12.12 Intersection Left (Rte 211)
- MP 12.20 Pic #1-13 - Edge Cracking
- MP 12.73 Intersection Left (Rte 911)
- MP 12.89 Intersection Left (Rte 912)
- MP 13.92 Intersection Left (Rte 013)
- MP 13.98 Intersection Left (Rte 207)
- MP 14.88 Intersection Right (Rte 208)

ROUTE: 012 East - West Highway



Western Region
JOTR: Joshua Tree NP

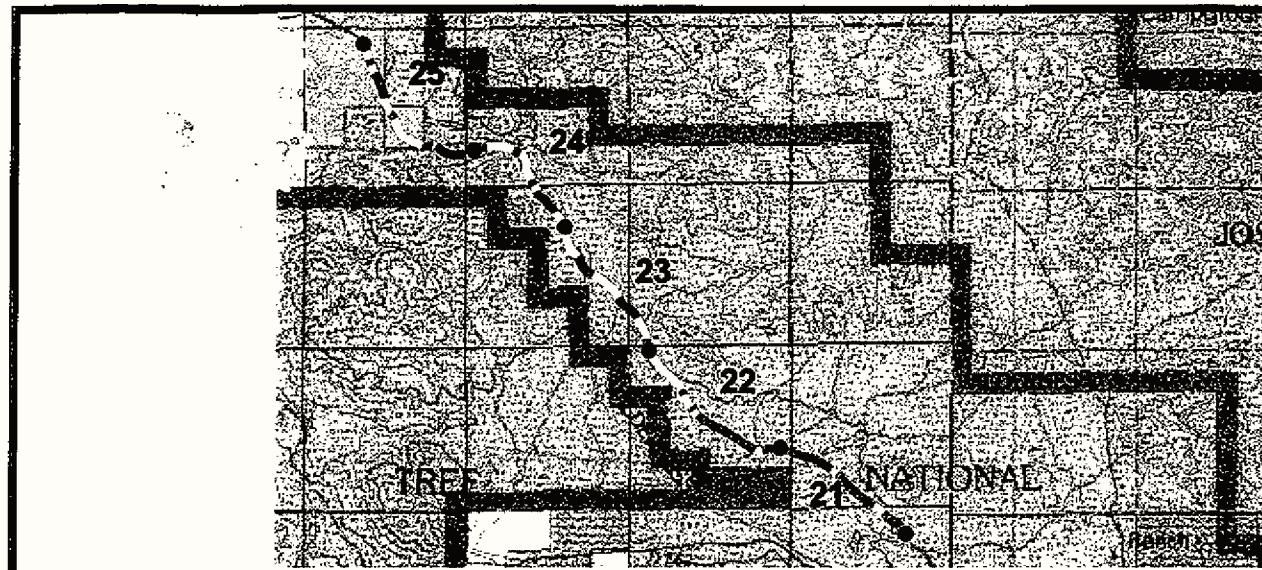
ROUTE: 012 East - West Highway

TOTAL LENGTH: 25.44 Miles

Section Number	16	17	18	19	20
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
AADT	NA	NA	NA	NA	NA
SADT	NA	NA	NA	NA	NA
ADT Date	NA	NA	NA	NA	NA
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	21	20	20	20	20
Lane Width (ft)	10	10	10	10	10
Shoulder Width (ft)	3	4	4	4	4
Roadway Condition Information					
PCR (Pavement Condition Rating)	16	14	11	13	27
Roughness Index	36	29	22	28	63
SCR (Surface Condition Rating)	2	4	3	2	3
Alligator Cracking	94	93	96	97	95
Rutting Index	89	89	85	83	90
Patching Index	100	100	100	100	100
Transverse Cracking	2	7	5	7	5
Longitudinal Cracking	93	92	91	96	94
Shoulder Condition Rating	Poor	Poor	Poor	Poor	Poor
Drainage Condition Rating	Poor	Poor	Poor	Poor	Poor

COMMENTS:

- MP 16.00 Pic #1-16 - Typical Section
- MP 16.65 Intersection Left
- MP 16.59 Intersection Left (Rte 913)
- MP 18.00 Pic #1-19 - Typical Section



PCR Excellent Good Fair Poor DCR Poor

* If the PCR rating is not available for a section, the SCR rating will be displayed

Western Region
JOTR : Joshua Tree NP

ROUTE: 012 East - West Highway

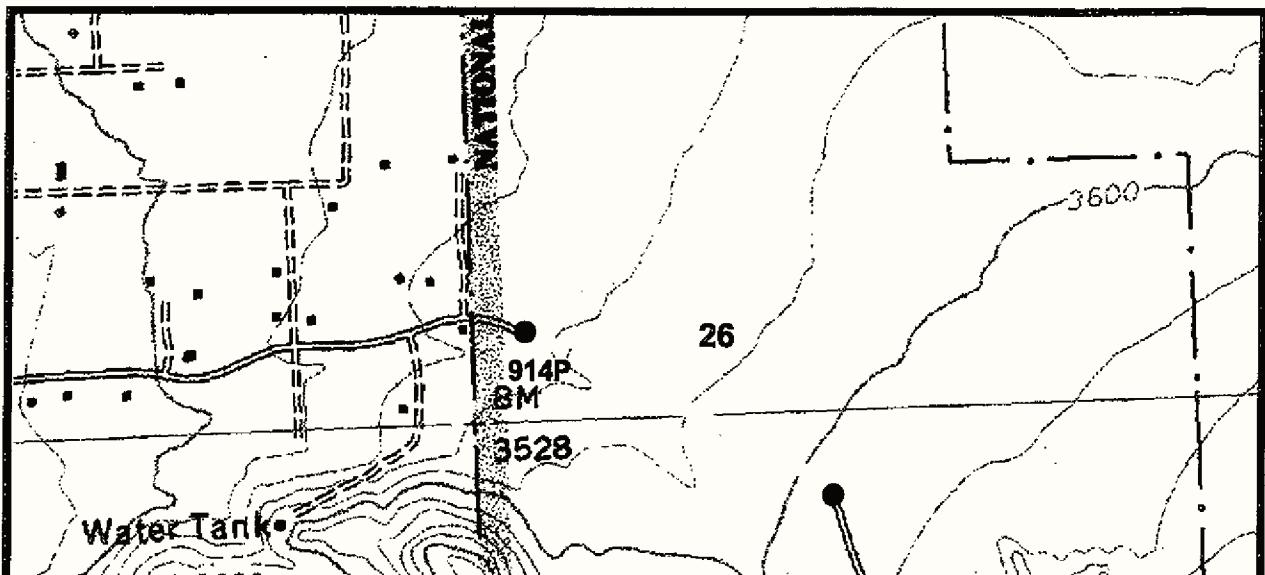
TOTAL LENGTH: 25.44 Miles

Section Number	21	22	23	24	25
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
AADT	NA	NA	NA	NA	NA
SADT	NA	NA	NA	NA	NA
ADT Date	NA	NA	NA	NA	NA
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	25	25	25	25	25
Lane Width (ft)	12	12	12	12	12
Shoulder Width (ft)	4	2	2	2	0
Roadway Condition Information					
PCR (Pavement Condition Rating)	37	38	66	69	64
Roughness Index	88	84	86	87	85
SCR (Surface Condition Rating)	2	7	53	57	49
Alligator Cracking	93	92	100	100	100
Rutting Index	86	87	97	93	95
Patching Index	100	100	100	100	100
Transverse Cracking	3	10	59	66	55
Longitudinal Cracking	90	91	99	100	100
Shoulder Condition Rating	Fair	Poor	Fair	Fair	NA
Drainage Condition Rating	Poor	Poor	Fair	Fair	Fair

COMMENTS:

MP 21.40 Pic #1-20 - Typical Section

ROUTE: 012 East - West Highway



PCR Excellent ████ Good ████ Fair ████ Poor ████ DCR Poor ████

* If the PCR rating is not available for a section, the SCR rating will be displayed

Western Region
JOTR : Joshua Tree NP

ROUTE: 012 East - West Highway

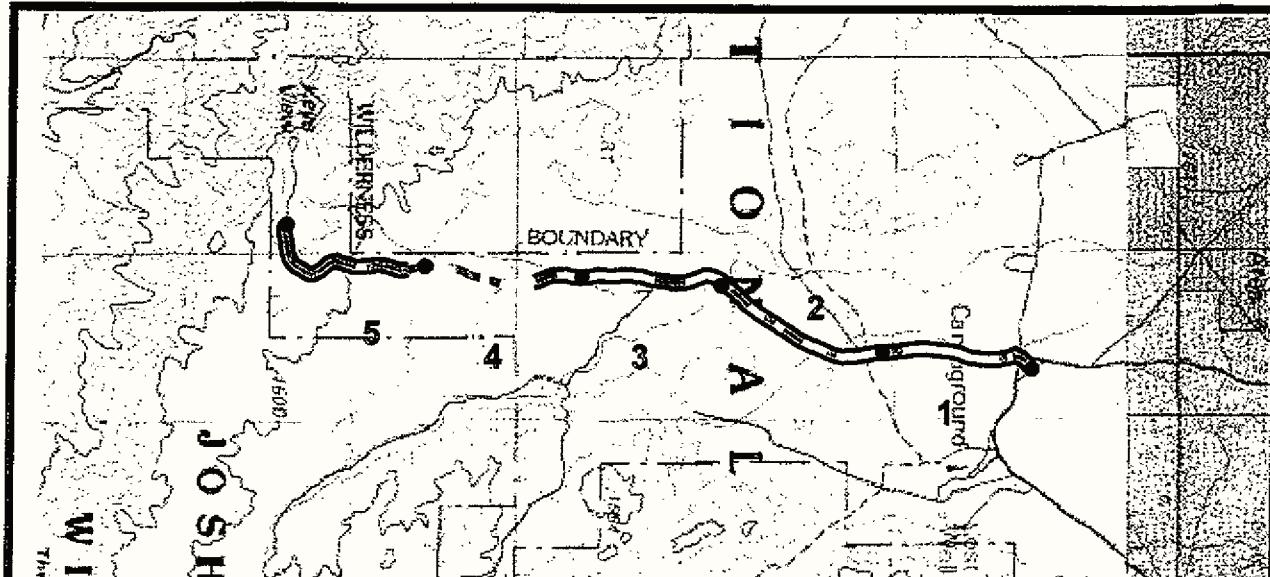
TOTAL LENGTH: 25.44 Miles

Section Number	26				
Section Length (mi)	0.44				
AADT	NA				
SADT	NA				
ADT Date	NA				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	25				
Lane Width (ft)	12				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	80				
Roughness Index	85				
SCR (Surface Condition Rating)	79				
Alligator Cracking	100				
Rutting Index	94				
Patching Index	100				
Transverse Cracking	88				
Longitudinal Cracking	99				
Shoulder Condition Rating	NA				
Drainage Condition Rating	Fair				

COMMENTS:

MP 25.44 End Rte 012 at West Boundary
MP 25.44 Pic #1-22 West Entrance
MP 25.44 New Chip Seal

ROUTE: 012 East - West Highway



PCR Excellent ████ Good ████ Fair ████ Poor ████ DCR Poor ████
 * If the PCR rating is not available for a section, the SCR rating will be displayed

Western Region
JOTR: Joshua Tree

ROUTE: 013 Keys View Road

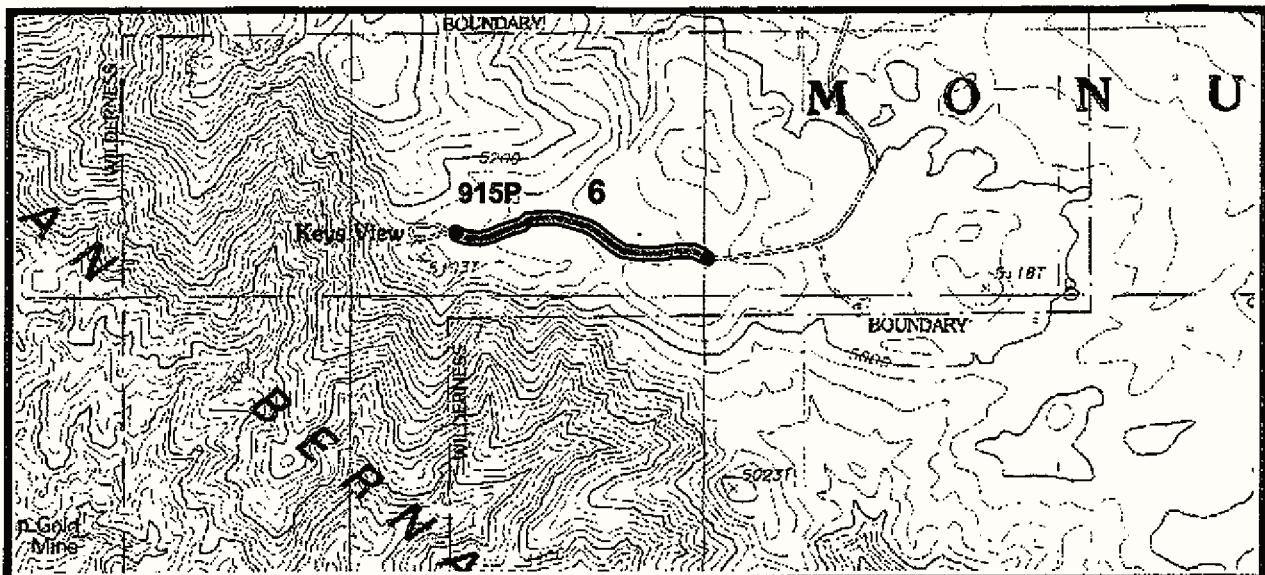
TOTAL LENGTH: 5.44 Miles

Section Number	1	2	3	4	5
Section Length (mi)	1.00	1.00	1.00	1.00	1.00
AADT	NA	NA	NA	NA	NA
SADT	NA	NA	NA	NA	NA
ADT Date	NA	NA	NA	NA	NA
Cross Section Information					
Number of Lanes	2	2	2	2	2
Paved Width (ft)	25	20	20	20	20
Lane Width (ft)	12	10	10	10	10
Shoulder Width (ft)	0	0	0	4	4
Roadway Condition Information					
PCR (Pavement Condition Rating)	62	53	77	61	17
Roughness Index	54	43	65	68	43
SCR (Surface Condition Rating)	66	61	85	55	0
Alligator Cracking	99	100	100	100	92
Rutting Index	92	88	92	91	85
Patching Index	100	100	100	100	100
Transverse Cracking	78	76	95	62	2
Longitudinal Cracking	93	97	99	98	92
Shoulder Condition Rating	NA	NA	NA	Fair	Poor
Drainage Condition Rating	Poor	Poor	Poor	Fair	Poor

COMMENTS:

- MP 0.00 Begin at Rte 012
- MP 0.00 Pic #2-01 - Typical Section
- MP 1.80 Pic #1.80 - Pavement Change
- MP 2.40 Intersection Rte 106
- MP 3.00 Pic #2-04 - Typical Section
- MP 3.60 Pavement Change
- MP 4.00 Pic #2-06 - Edge Cracking
- MP 5.00 Pavement Change

ROUTE: 013 Keys View Road



PCR Excellent Good Fair Poor DCR Poor

* If the PCR rating is not available for a section, the SCR rating will be displayed

Western Region
JOTR : Joshua Tree NP

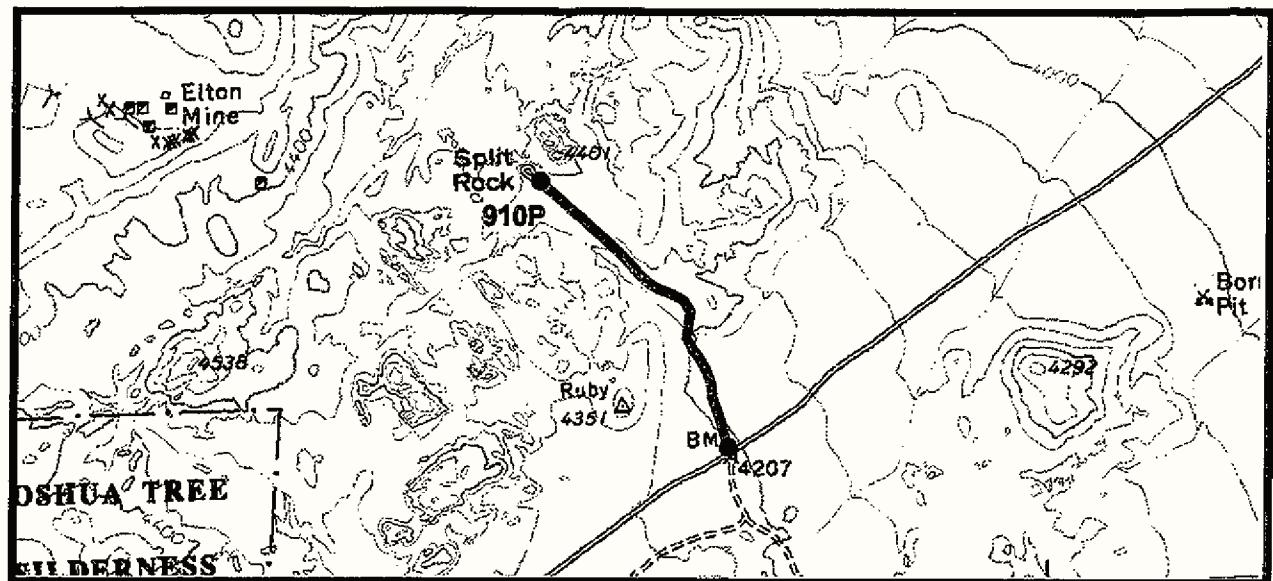
ROUTE: 013 Keys View Road

TOTAL LENGTH: 5.44 Miles

Section Number	6				
Section Length (mi)	0.44				
AADT	NA				
SADT	NA				
ADT Date	NA				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	20				
Lane Width (ft)	10				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	15				
Roughness Index	36				
SCR (Surface Condition Rating)	0				
Alligator Cracking	92				
Rutting Index	87				
Patching Index	100				
Transverse Cracking	0				
Longitudinal Cracking	95				
Shoulder Condition Rating	NA				
Drainage Condition Rating	Poor				

COMMENTS:

MP 5.40 Pic #2-09 - Begin One-Way Loop
MP 5.46 End Rte 013



PCR Excellent Good Fair Poor DCR Poor

* If the PCR rating is not available for a section, the SCR rating will be displayed

Western Region
JOTR : Joshua Tree NP

ROUTE: 200 Split Rock Road

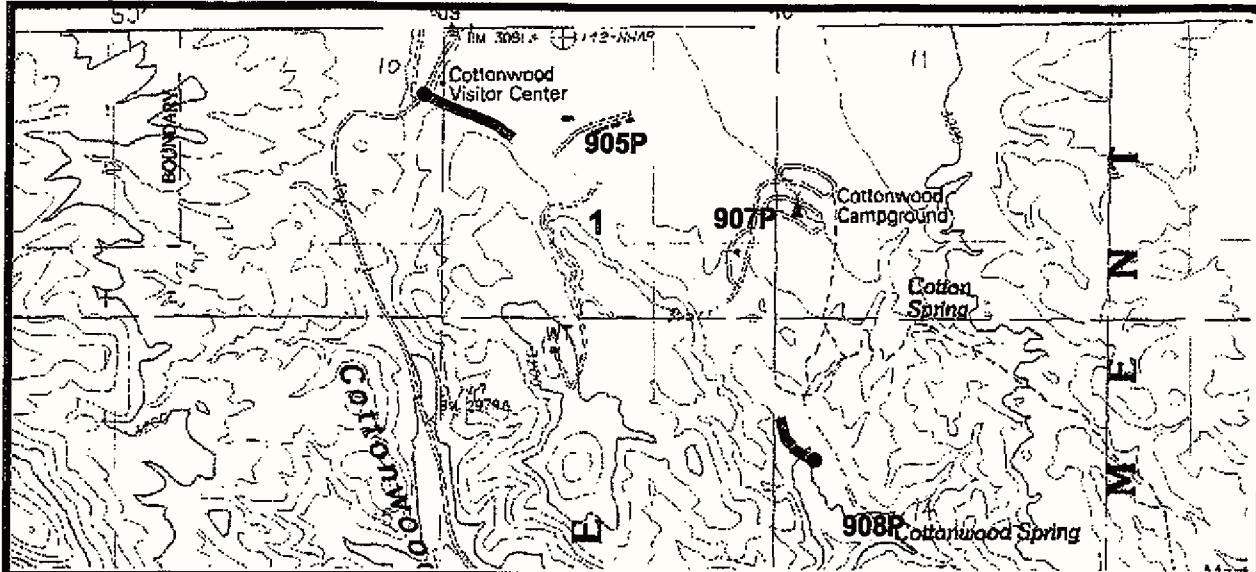
TOTAL LENGTH: 0.5 Miles

Section Number	1				
Section Length (mi)	0.50				
AADT	NA				
SADT	NA				
ADT Date	NA				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	18				
Lane Width (ft)	9				
Shoulder Width (ft)	2				
Roadway Condition Information					
PCR (Pavement Condition Rating)	NA				
Roughness Index	11				
SCR (Surface Condition Rating)	7				
Alligator Cracking	96				
Rutting Index	76				
Patching Index	100				
Transverse Cracking	12				
Longitudinal Cracking	92				
Shoulder Condition Rating	Fair				
Drainage Condition Rating	Good				

COMMENTS:

- MP 0.00 Begin at Rte 012
- MP 0.00 Pic #2-12 - Typical Section
- MP 0.40 Pavement Change
- MP 0.54 End Rte 200

ROUTE: 200 Split Rock Road



PCR Excellent Good Fair Poor DCR Poor

* If the PCR rating is not available for a section, the SCR rating will be displayed

Western Region
JOTR : Joshua Tree NP

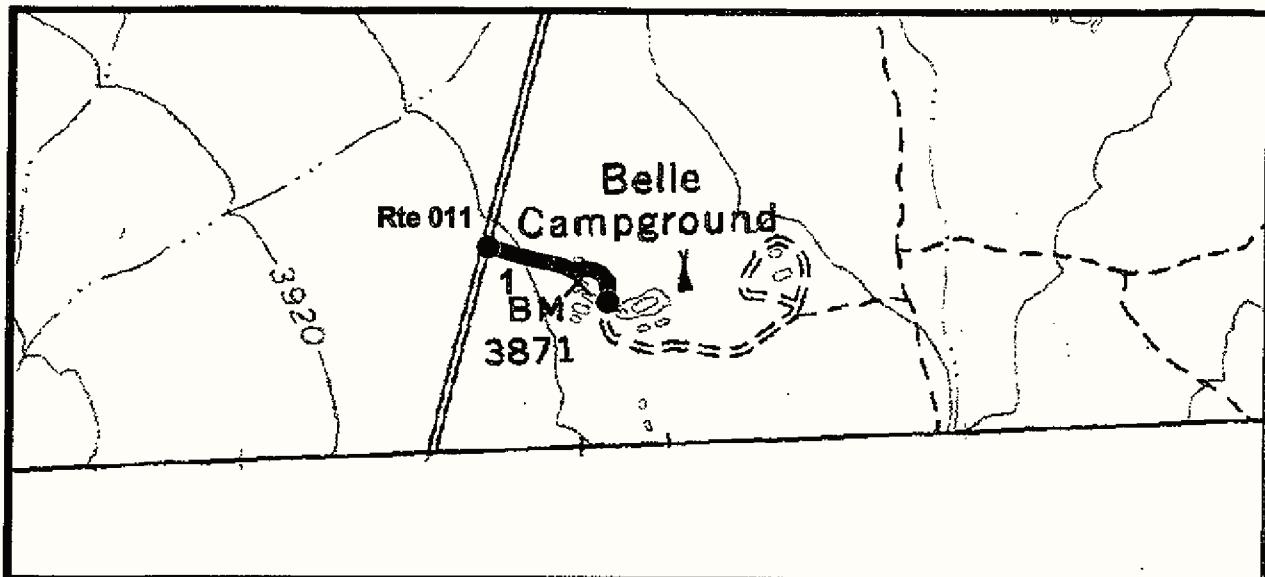
ROUTE: 204 Lost Palms Trail Road

TOTAL LENGTH: 1.1 Miles

Section Number	1	2			
Section Length (mi)	1.00	0.10			
AADT	NA	NA			
SADT	NA	NA			
ADT Date	NA	NA			
Cross Section Information					
Number of Lanes	2	2			
Paved Width (ft)	24	24			
Lane Width (ft)	12	12			
Shoulder Width (ft)	0	0			
Roadway Condition Information					
PCR (Pavement Condition Rating)	68	64			
Roughness Index	59	44			
SCR (Surface Condition Rating)	72	80			
Alligator Cracking	100	100			
Rutting Index	85	91			
Patching Index	100	100			
Transverse Cracking	82	84			
Longitudinal Cracking	97	100			
Shoulder Condition Rating	NA	NA			
Drainage Condition Rating	Good	Good			

COMMENTS:

- MP 0.00 Begin at Rte 011
- MP 0.27 Intersection Left (Rte 905)
- MP 0.70 Intersection Left (Rte 907)
- MP 1.10 End of Rte



PCR Excellent Good Fair Poor DCR Poor

* If the PCR rating is not available for a section, the SCR rating will be displayed

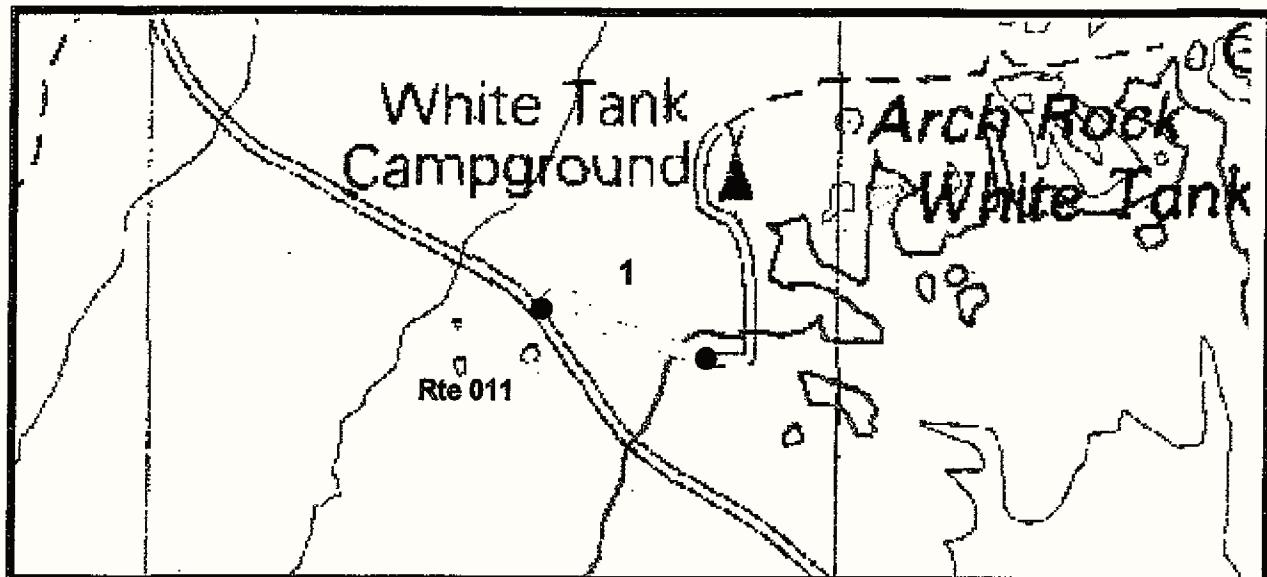
Western Region
JOTR: Joshua Tree NP

ROUTE: 205 Belle Campground Road

TOTAL LENGTH: 0.1 Miles

Section Number	1				
Section Length (mi)	0.10				
AADT	NA				
SADT	NA				
ADT Date	NA				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	20				
Lane Width (ft)	10				
Shoulder Width (ft)	2				
Roadway Condition Information					
PCR (Pavement Condition Rating)	NA				
Roughness Index	43				
SCR (Surface Condition Rating)	6				
Alligator Cracking	100				
Rutting Index	82				
Patching Index	100				
Transverse Cracking	4				
Longitudinal Cracking	100				
Shoulder Condition Rating	Fair				
Drainage Condition Rating	Good				

COMMENTS:



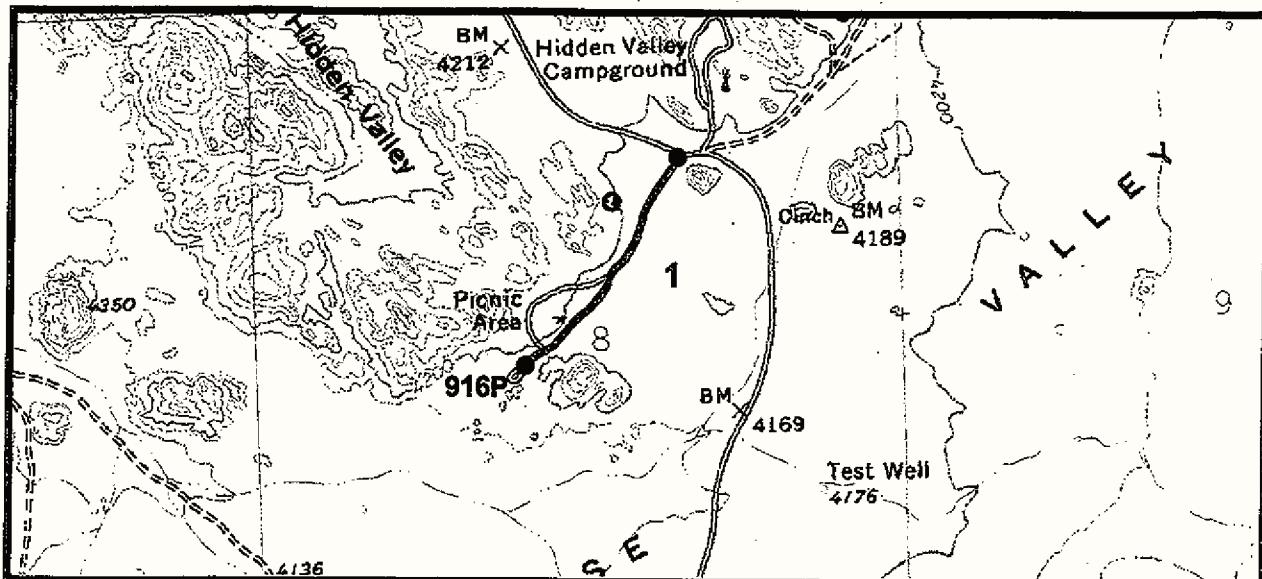
Western Region
JOTR: Joshua Tree

ROUTE: 206 White Tank Campground Road

TOTAL LENGTH: 0.1 Miles

Section Number	1				
Section Length (mi)	0.10				
AADT	NA				
SADT	NA				
ADT Date	NA				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	24				
Lane Width (ft)	12				
Shoulder Width (ft)	0				
Roadway Condition Information					
PCR (Pavement Condition Rating)	69				
Roughness Index	64				
SCR (Surface Condition Rating)	77				
Alligator Cracking	100				
Rutting Index	90				
Patching Index	100				
Transverse Cracking	29				
Longitudinal Cracking	100				
Shoulder Condition Rating	NA				
Drainage Condition Rating	Good				

COMMENTS:



PCR Excellent Good Fair Poor DCR Poor

* If the PCR rating is not available for a section, the SCR rating will be displayed

Western Region
JOTR : Joshua Tree NP

ROUTE: 208 Hidden Valley Picnic Road

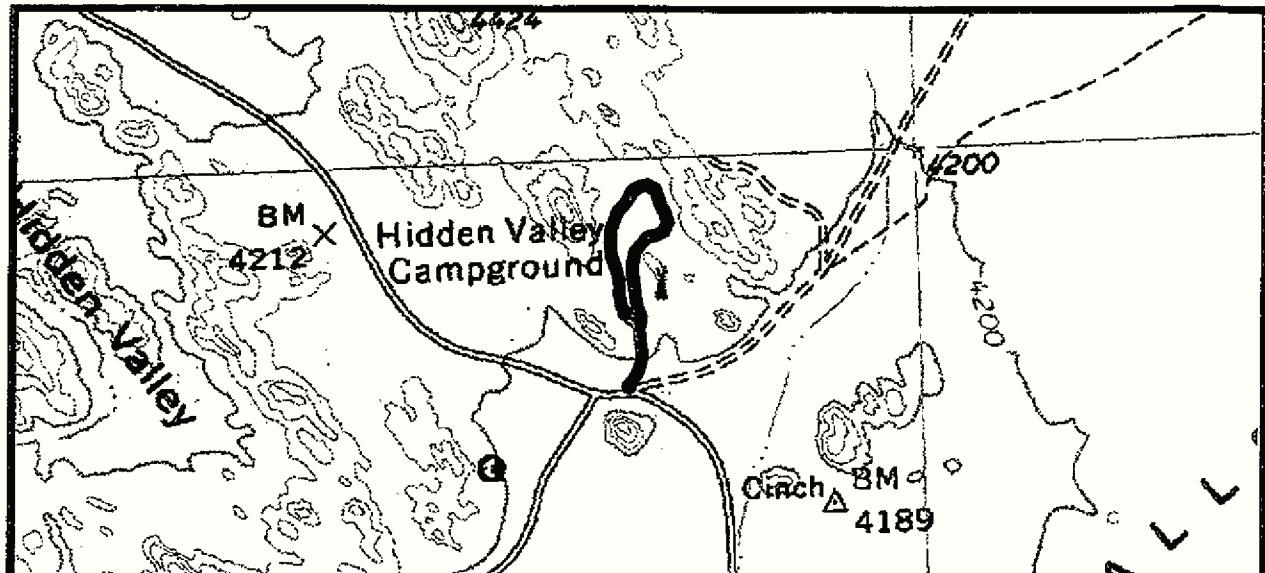
TOTAL LENGTH: 0.32 Miles

Section Number	1				
Section Length (mi)	0.32				
AADT	NA				
SADT	NA				
ADT Date	NA				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	18				
Lane Width (ft)	9				
Shoulder Width (ft)	2				
Roadway Condition Information					
PCR (Pavement Condition Rating)	12				
Roughness Index	6				
SCR (Surface Condition Rating)	17				
Alligator Cracking	99				
Rutting Index	82				
Patching Index	100				
Transverse Cracking	25				
Longitudinal Cracking	96				
Shoulder Condition Rating	Fair				
Drainage Condition Rating	Good				

COMMENTS:

MP 0.00 Begin at Rte 012
 MP 0.01 Pic #2-15
 MP 0.20 Pavement Change
 MP 0.32 End of Rte

ROUTE: 208 Hidden Valley Picnic Road



PCR Excellent

Good

Fair

Poor

DCR Poor

* If the PCR rating is not available for a section, the SCR rating will be displayed

Western Region

JOTR: Joshua Tree NP

ROUTE: 207 Hidden Valley Campground

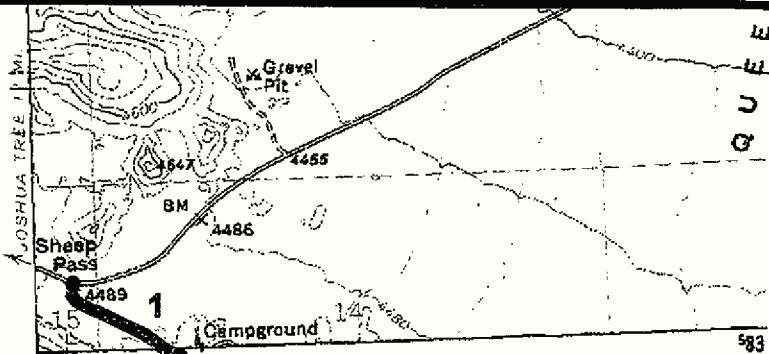
TOTAL LENGTH: 0.38 Miles

Section Number	1				
Section Length (mi)	0.38				
AADT	NA				
SADT	NA				
ADT Date	NA				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	14				
Lane Width (ft)	7				
Shoulder Width (ft)	2				
Roadway Condition Information					
PCR (Pavement Condition Rating)	NA				
Roughness Index	NA				
SCR (Surface Condition Rating)	94				
Alligator Cracking	100				
Rutting Index	86				
Patching Index	100				
Transverse Cracking	100				
Longitudinal Cracking	100				
Shoulder Condition Rating	Fair				
Drainage Condition Rating	Good				

COMMENTS:

MP 0.00 Begin at Rte 012
 MP 0.00 Pic #2-14 - Typical Section
 MP 0.38 End of Rte

ROUTE: 207 Hidden Valley Campground



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S

PCR Excellent Good Fair Poor DCR Poor
 * If the PCR rating is not available for a section, the SCR rating will be displayed

Western Region
JOTR : Joshua Tree NP

ROUTE: 211 Sheep Pass Campground

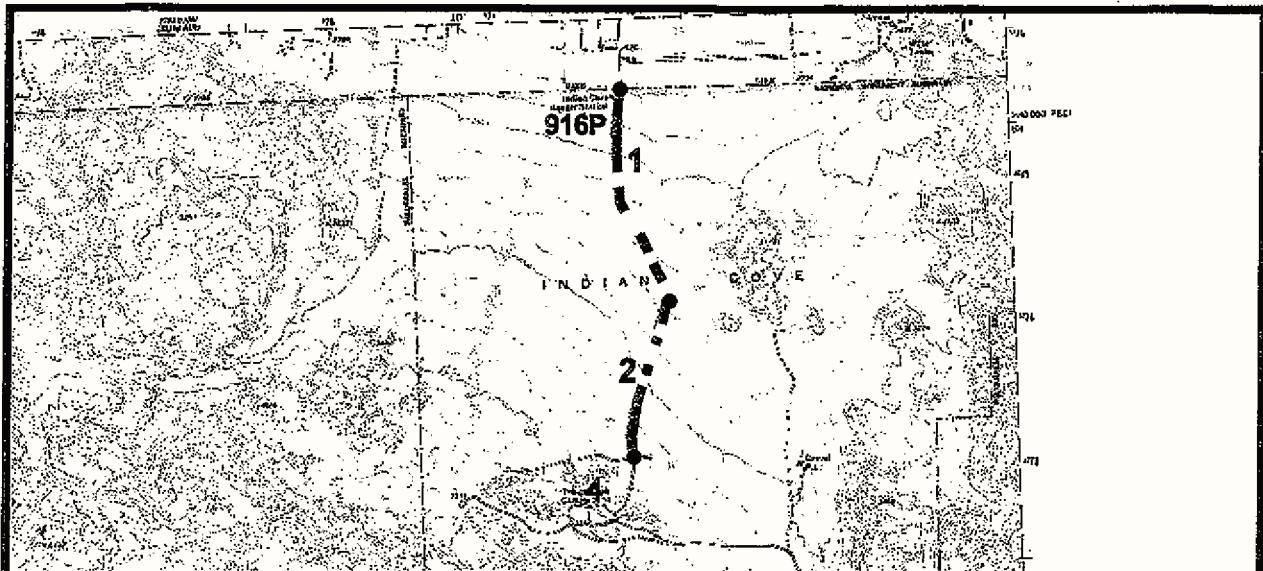
TOTAL LENGTH: 0.26 Miles

Section Number	1				
Section Length (mi)	0.26				
AADT	NA				
SADT	NA				
ADT Date	NA				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	16				
Lane Width (ft)	8				
Shoulder Width (ft)	2				
Roadway Condition Information					
PCR (Pavement Condition Rating)	14				
Roughness Index	34				
SCR (Surface Condition Rating)	0				
Alligator Cracking	93				
Rutting Index	81				
Patching Index	100				
Transverse Cracking	0				
Longitudinal Cracking	92				
Shoulder Condition Rating	Fair				
Drainage Condition Rating	Good				

COMMENTS:

MP 0.00 Begin at Rte 012
 MP 0.00 Pic #2-13 - Typical Section
 MP 0.26 End of Rte

ROUTE: 211 Sheep Pass Campground



PCR Excellent Good Fair Poor DCR Poor

* If the PCR rating is not available for a section, the SCR rating will be displayed

Western Region
JOTR : Joshua Tree NP

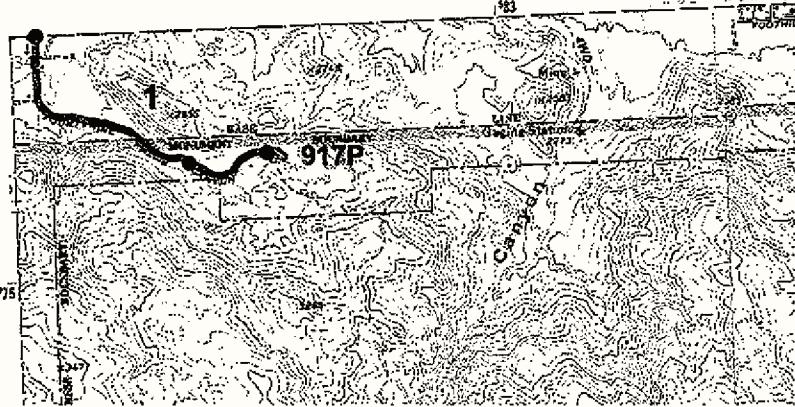
ROUTE: 212 Indian Cove Campground

TOTAL LENGTH: 1.68 Miles

Section Number	1	2			
Section Length (mi)	1.00	0.68			
AADT	NA	NA			
SADT	NA	NA			
ADT Date	NA	NA			
Cross Section Information					
Number of Lanes	2	2			
Paved Width (ft)	20	18			
Lane Width (ft)	10	9			
Shoulder Width (ft)	5	5			
Roadway Condition Information					
PCR (Pavement Condition Rating)	39	NA			
Roughness Index	64	7			
SCR (Surface Condition Rating)	21	10			
Alligator Cracking	93	97			
Rutting Index	85	75			
Patching Index	100	100			
Transverse Cracking	33	16			
Longitudinal Cracking	93	93			
Shoulder Condition Rating	Good	Good			
Drainage Condition Rating	Good	Good			

COMMENTS:

MP 0.00 Begin at North Boundary
MP 0.01 Intersection Right (Rte 916)
MP 0.30 Pic #2-18 - Typical Section
MP 1.68 End at Beginning of Campground



PCR Excellent Good Fair Poor

DCR Poor

* If the PCR rating is not available for a section, the SCR rating will be displayed

Western Region
JOTR : Joshua Tree NP

ROUTE: 213 Canyon Road

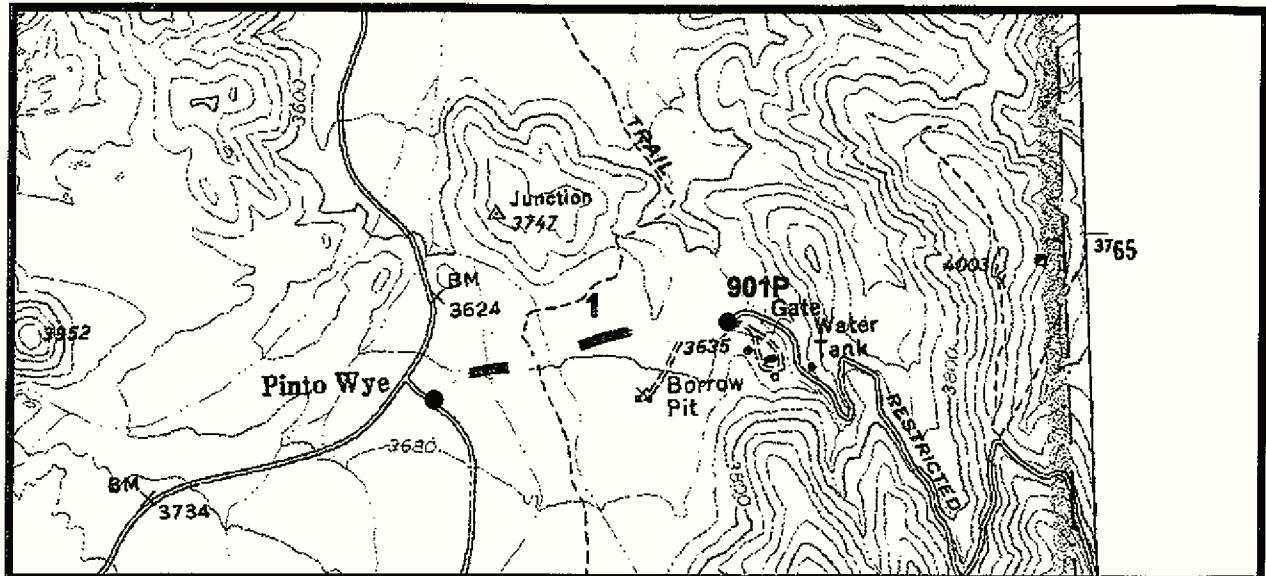
TOTAL LENGTH: 1.26 Miles

Section Number	1	2			
Section Length (mi)	1.00	0.26			
AADT	NA	NA			
SADT	NA	NA			
ADT Date	NA	NA			
Cross Section Information					
Number of Lanes	2	2			
Paved Width (ft)	18	18			
Lane Width (ft)	9	9			
Shoulder Width (ft)	0	0			
Roadway Condition Information					
PCR (Pavement Condition Rating)	16	12			
Roughness Index	35	29			
SCR (Surface Condition Rating)	4	0			
Alligator Cracking	94	90			
Rutting Index	81	88			
Patching Index	100	100			
Transverse Cracking	7	8			
Longitudinal Cracking	92	88			
Shoulder Condition Rating	NA	NA			
Drainage Condition Rating	Good	Good			

COMMENTS:

Begin North of Boundary
MP 0.00 Pic #2-19 - Typical Section
MP 1.26 End of Rte

ROUTE: 213 Canyon Road



PCR Excellent ████ Good ████ Fair ████ Poor ████ DCR Poor ████

* If the PCR rating is not available for a section, the SCR rating will be displayed

Western Region
JOTR : Joshua Tree NP

ROUTE: 400 Maintenance Station Road

TOTAL LENGTH: 0.48 Miles

Section Number	1				
Section Length (mi)	0.48				
AADT	NA				
SADT	NA				
ADT Date	NA				
Cross Section Information					
Number of Lanes	2				
Paved Width (ft)	18				
Lane Width (ft)	9				
Shoulder Width (ft)	6				
Roadway Condition Information					
PCR (Pavement Condition Rating)	80				
Roughness Index	60				
SCR (Surface Condition Rating)	93				
Alligator Cracking	100				
Rutting Index	91				
Patching Index	100				
Transverse Cracking	97				
Longitudinal Cracking	100				
Shoulder Condition Rating	Good				
Drainage Condition Rating	Fair				

COMMENTS:

MP 0.00 Begin at Rte 011
MP 0.00 Pic #3-01 - Typical Section
MP 0.48 End of Rte

VI. MANUALLY RATED PAVED ROUTE CONDITION RATING SHEETS.

The following section contains routes that the ARAN cannot be driven on safely and accurately. Typically these are campground roads, which include aspects of both main routes and parking lot features. Also, these routes are designated for low-speed traffic, which does not allow the ARAN to effectively rate them.

In order to report the condition of these routes most accurately, they have been collected with both the ARAN and GPS data collection procedures. The entire route is collected using GPS, providing lane miles. Then, if possible, a sample section is collected using the ARAN, to get an objective rating of its condition. The portion is usually main thoroughfares or entrance roads.

Thus, SCR, RI, and PCR are reported, along with lane miles and a condition derived from the ARAN rating. Below the ratings will be the entire route mapped, with the sample section shown as a line in its corresponding condition color. If the ARAN could not be driven on the route, the ratings will be reported as 'NA', and the condition will be from subjective visual observation only.

Joshua Tree National Park

Route 203

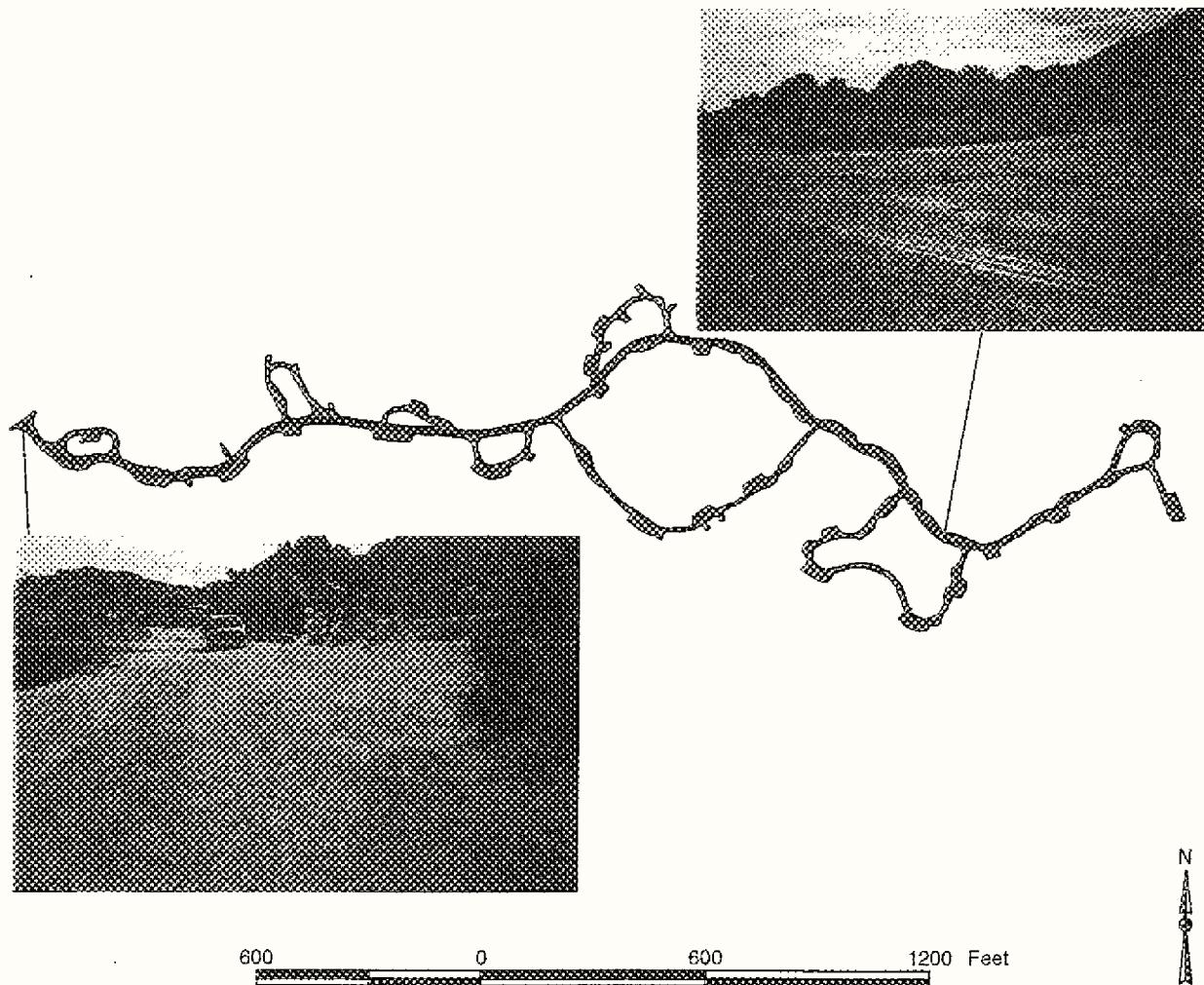
Jumbo Rocks Campground

From Rte. 012 on the left

Route	Area (sq ft)	Lane Miles	Sample Section (mi)	Width (ft)	SCR	RI	PCR	Condition
203	179602	3.09	0.68	10	89	46	NA	GOOD

* If the PCR rating is not available for a section, the SCR rating will be used.

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths

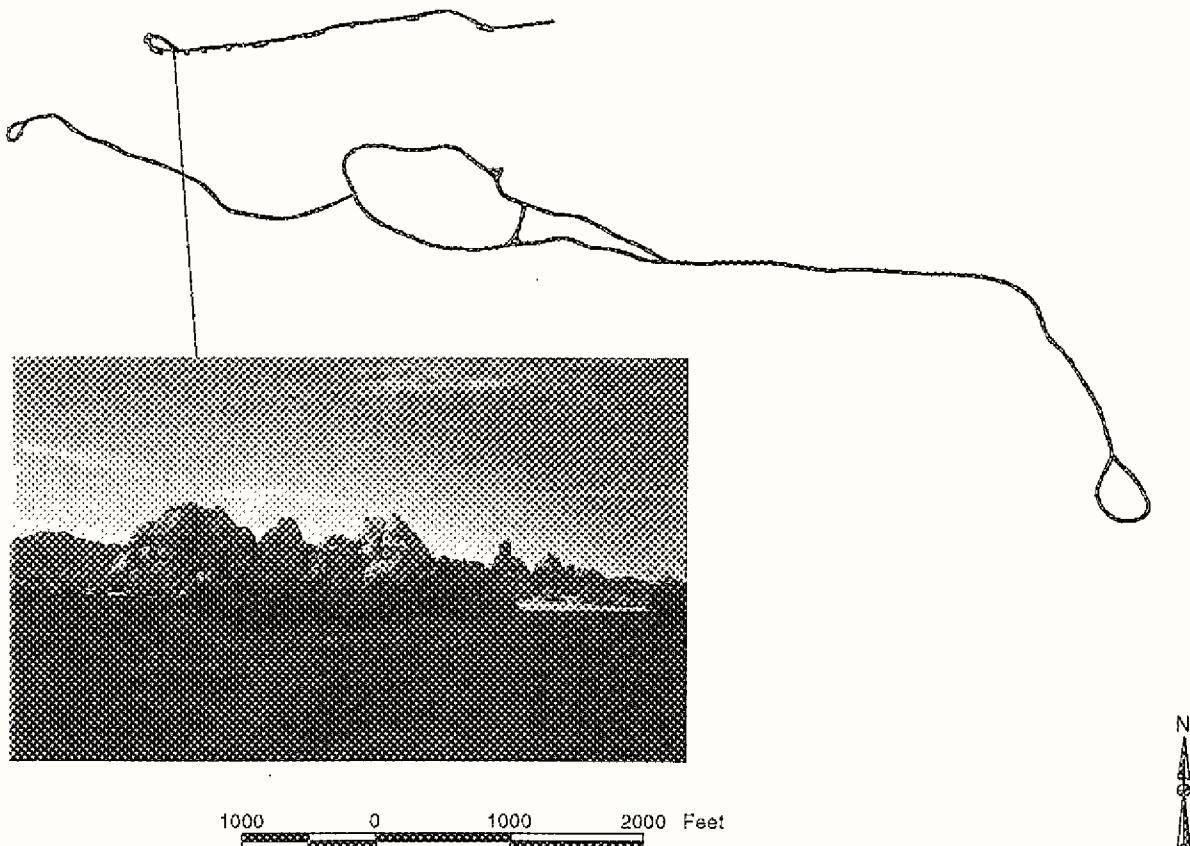


Joshua Tree National Park
Route 212
Indian Cove Campground
From North Boundary through Campground

Route	Area (sq ft)	Lane Miles	Sample Section (mi)	Width (ft)	SCR	RI	PCR	Condition
212	283907	4.89	NA*	9	NA	NA	NA	POOR

*Sample Section for this route is displayed on page 5-24, and goes from north boundary to beginning of the campground loop.

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths

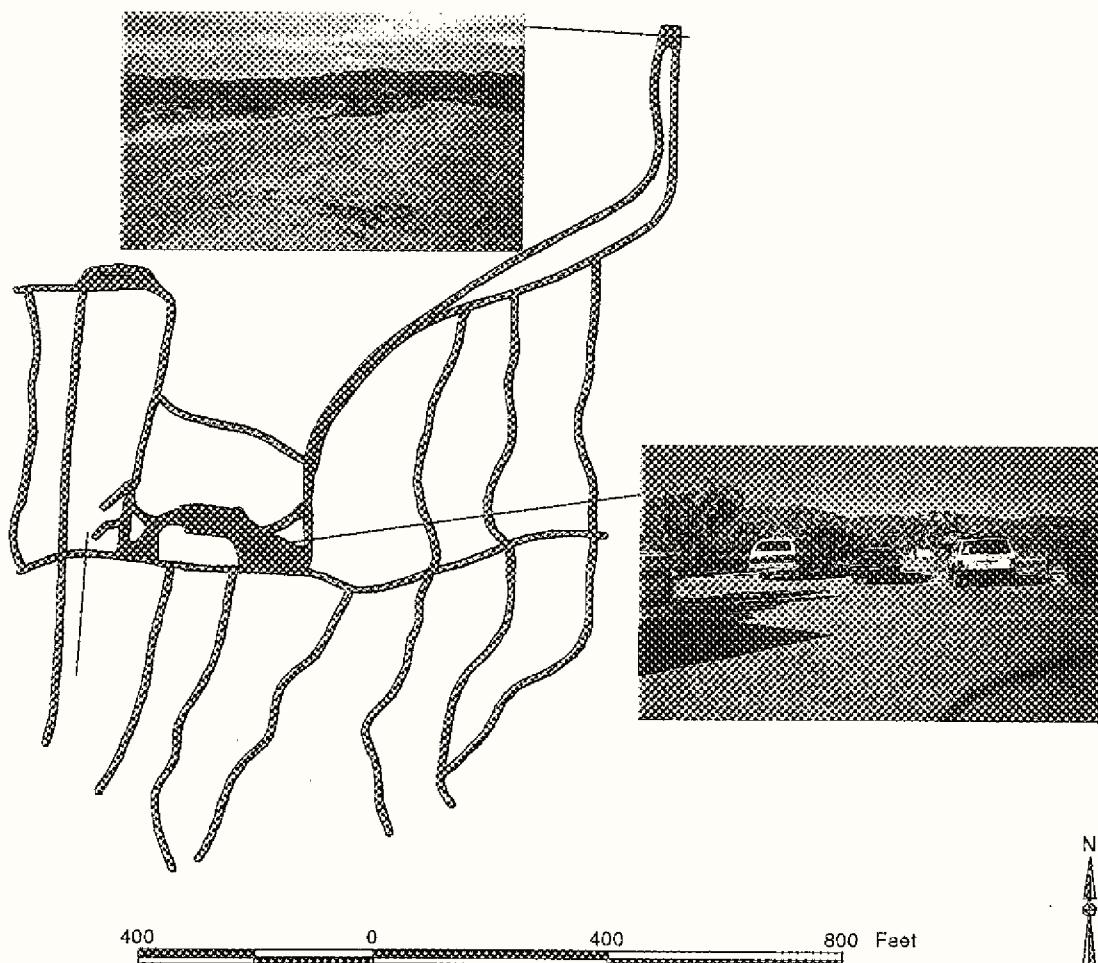


Joshua Tree National Park
Route 214
Black Rock Campground
From North Boundary through Campground

Route	Area (sq ft)	Lane Miles	Sample Section (mi)	Width (ft)	SCR	RI	PCR	Condition
214	153345	2.64	NA	NA	NA	NA	NA	FAIR

*If PCR is not available for a section, the SCR rating will be used.

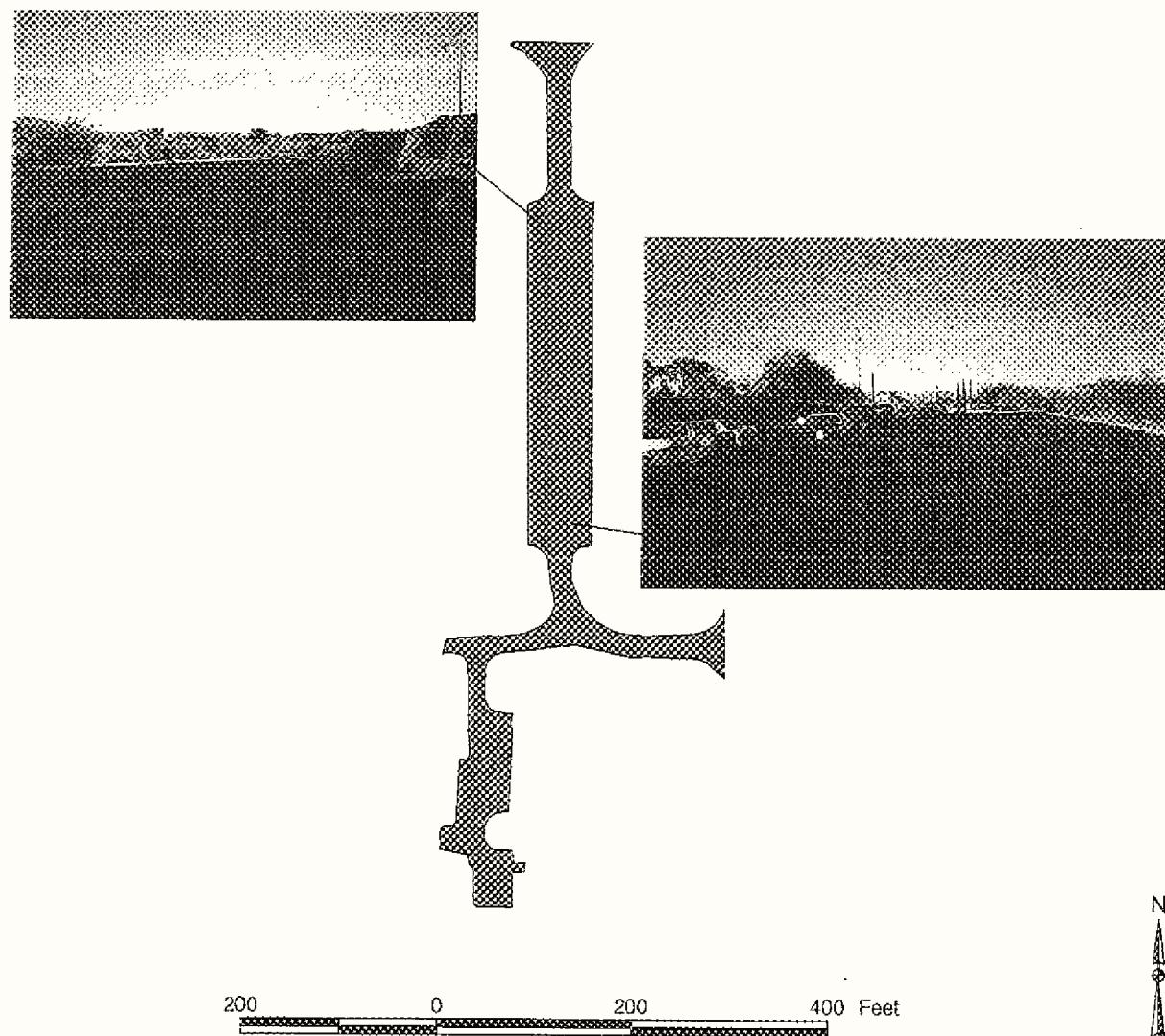
- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



Joshua Tree National Park
Route 900P
North Entrance Visitor Center Complex
Rte 012 at North Entrance

Route	State	Date Visited	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition
900P	CA	981119			47075.00	0.81	GOOD

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



Joshua Tree National Park

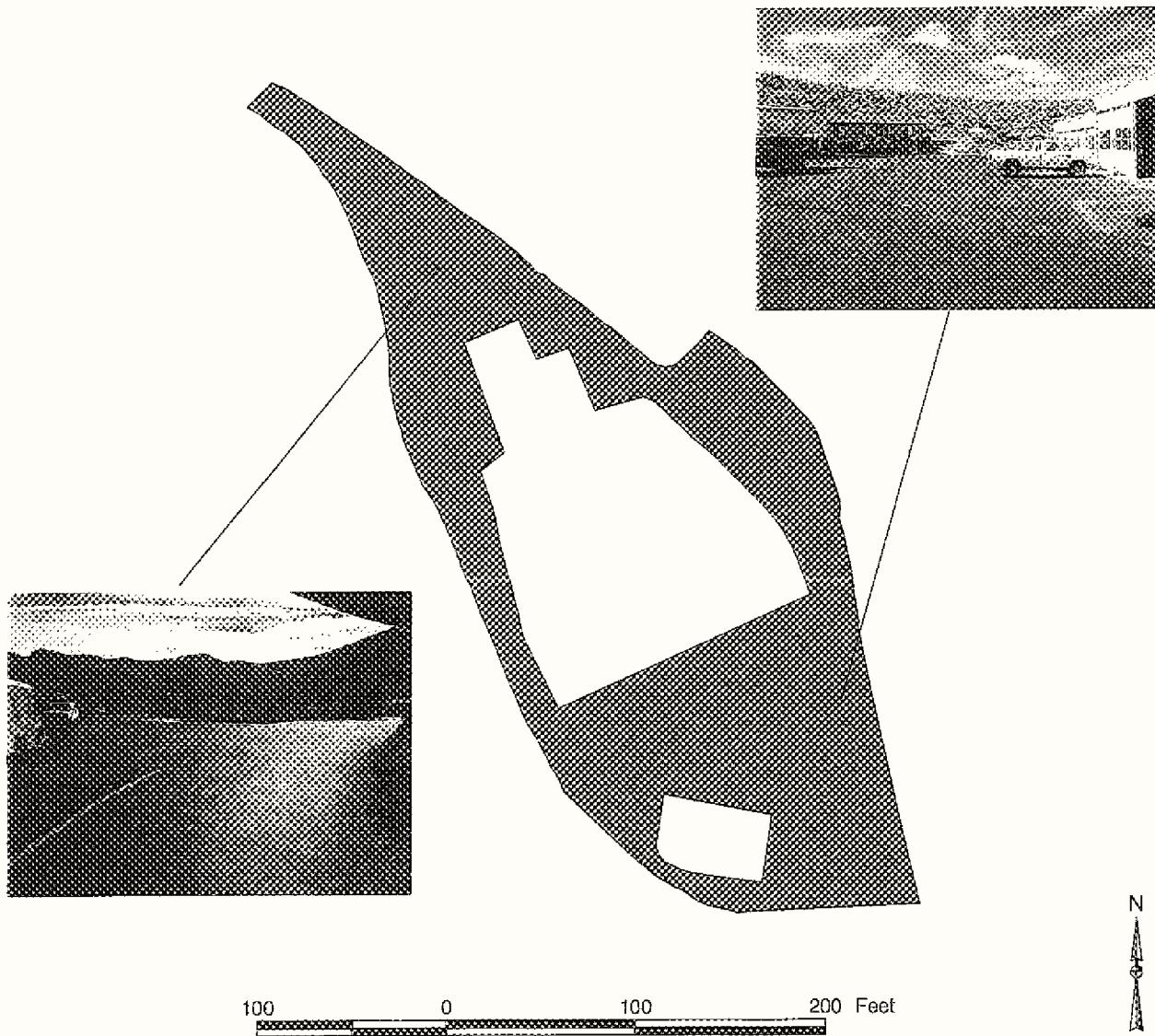
Route 901P

Maintenance Yard Parking

Parking at end of Rte 400

Route	State	Date Visited	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition
901N	CA	981119			42600.00	0.73	GOOD

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



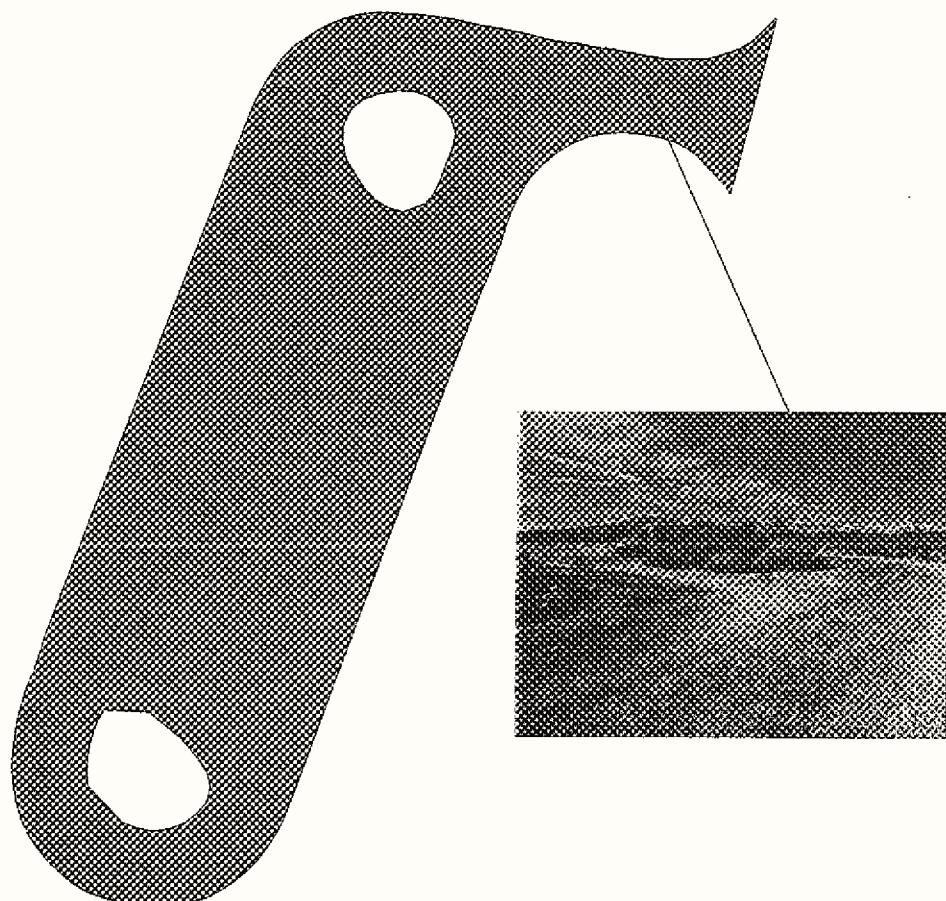
Joshua Tree National Park

Route 902P

Twin Tanks Backcountry Parking
From Rte 011 on right

Route	State	Date Visited	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition
902P	CA	981119			23609.00	0.41	GOOD

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



70 0 70 140 Feet

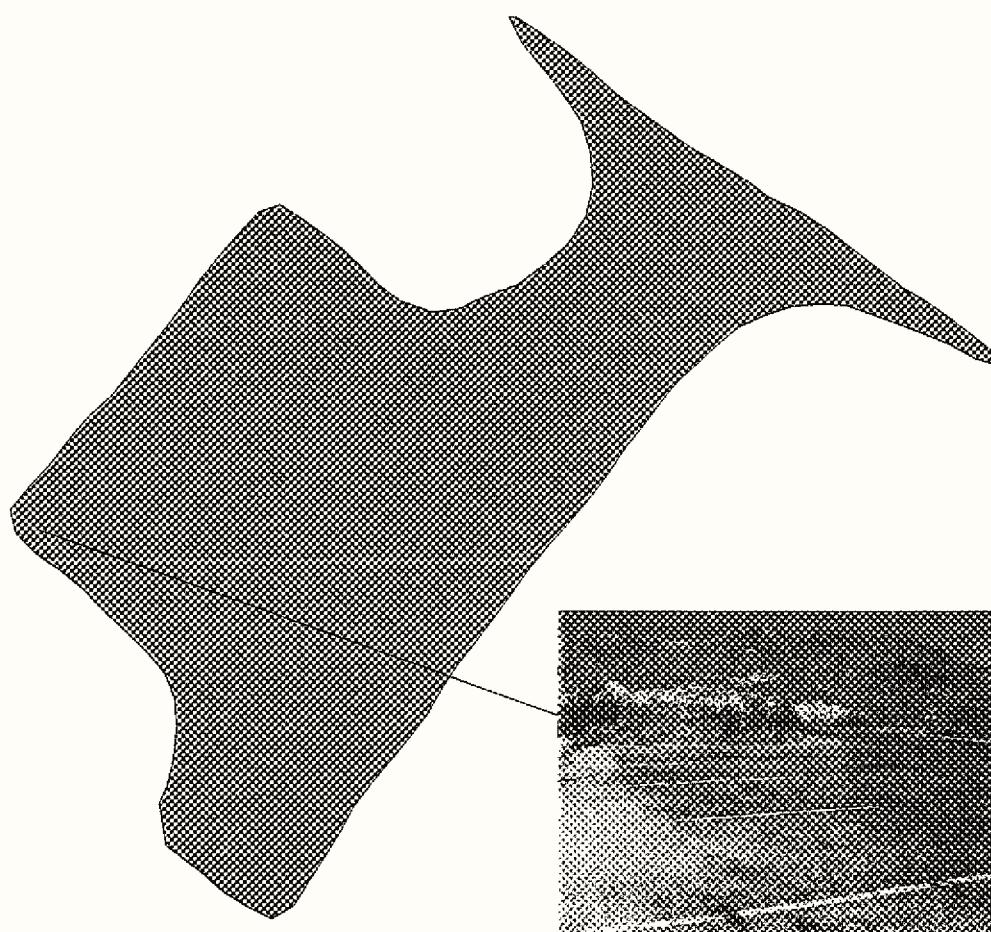
Joshua Tree National Park

Route 903P

2 Deserts Meet Parking
From Rte 011 on right

Route	State	Date Visited	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition
903P	CA	981118			6221.00	0.11	FAIR

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



30 0 30 60 Feet

N

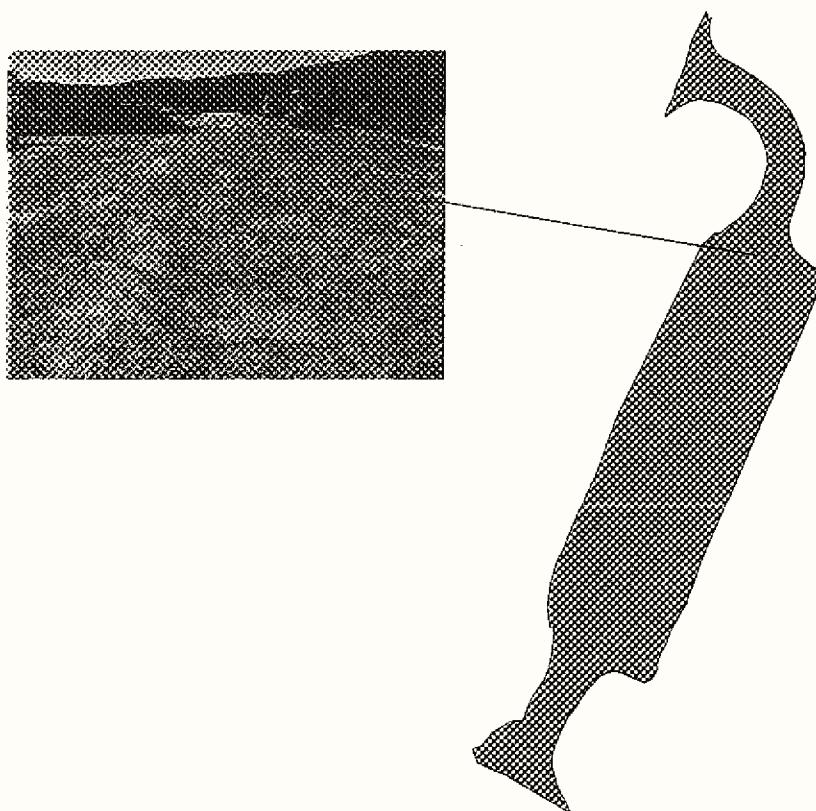
Joshua Tree National Park

Route 904P

Cottonwood Visitor Center
At intersection of Rte 011 and 204

Route	State	Date Visited	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition
904P	CA	981118			18143.00	0.31	FAIR

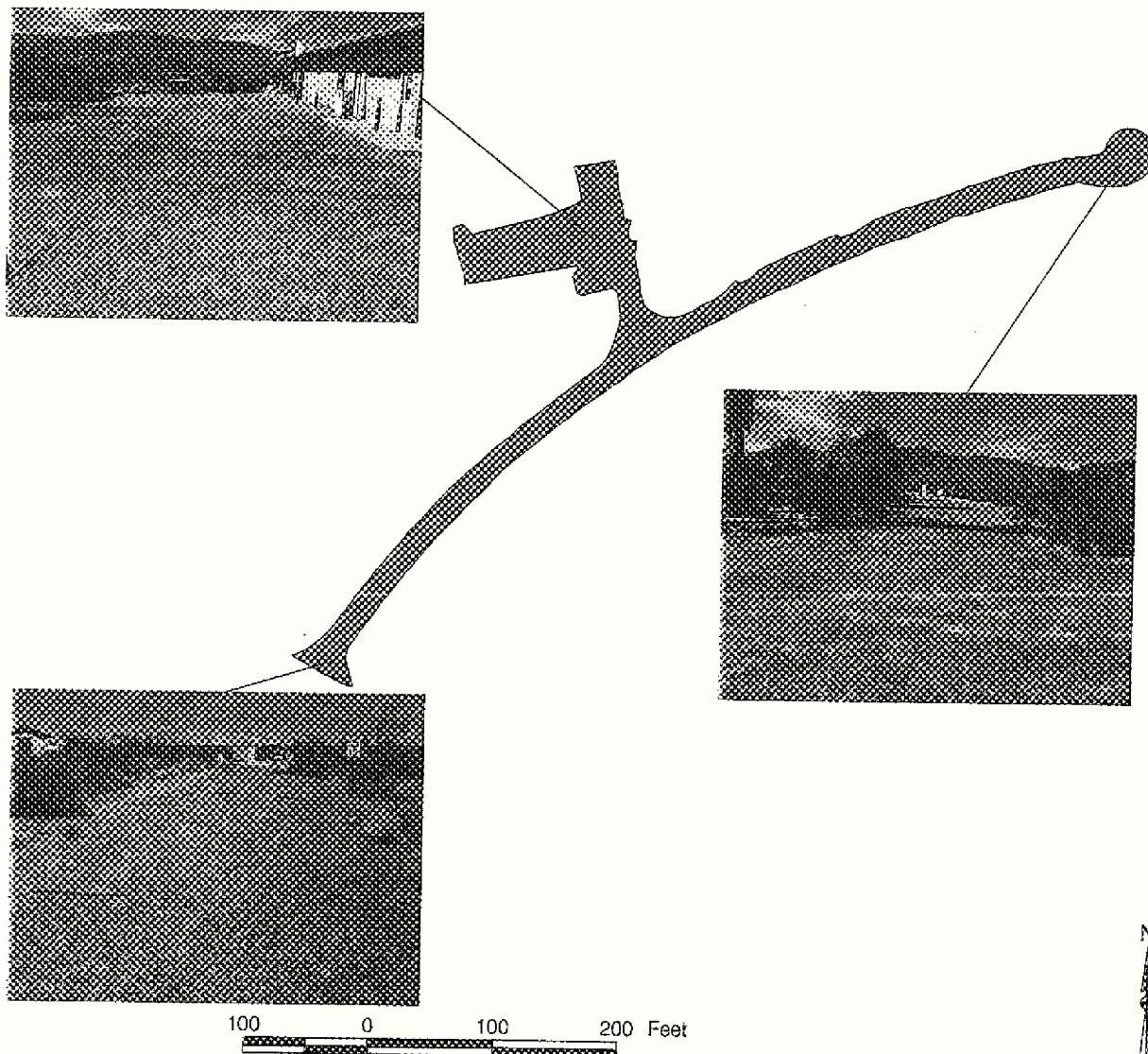
- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



Joshua Tree National Park
Route 905N
Cottonwood Residential Area
From Rte 204 on left

Route	State	Date Visited	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition
905N	CA	981118			26356.00	0.45	FAIR

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



Joshua Tree National Park

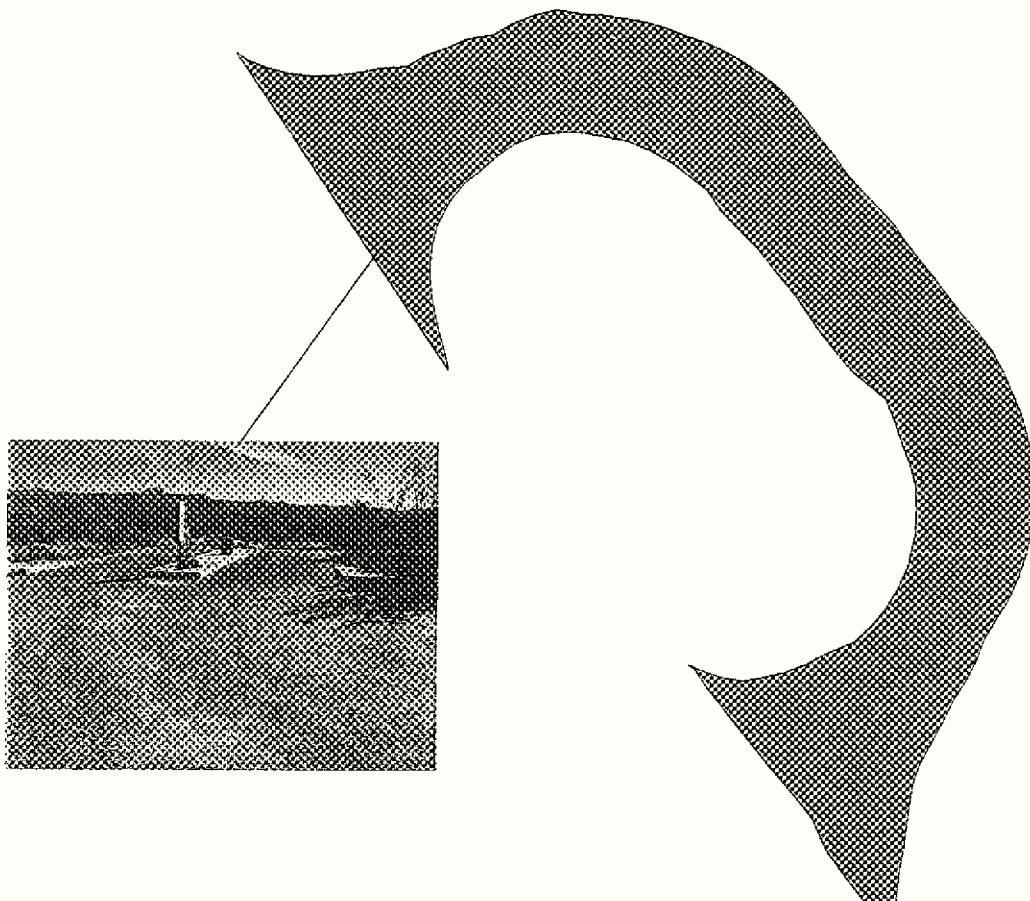
Route 906P

Cottonwood Dump Station

From Rte 204 on left

Route	State	Date Visited	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition
906P	CA	981118			9014.00	0.16	FAIR

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



50 0 50 100 Feet

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E
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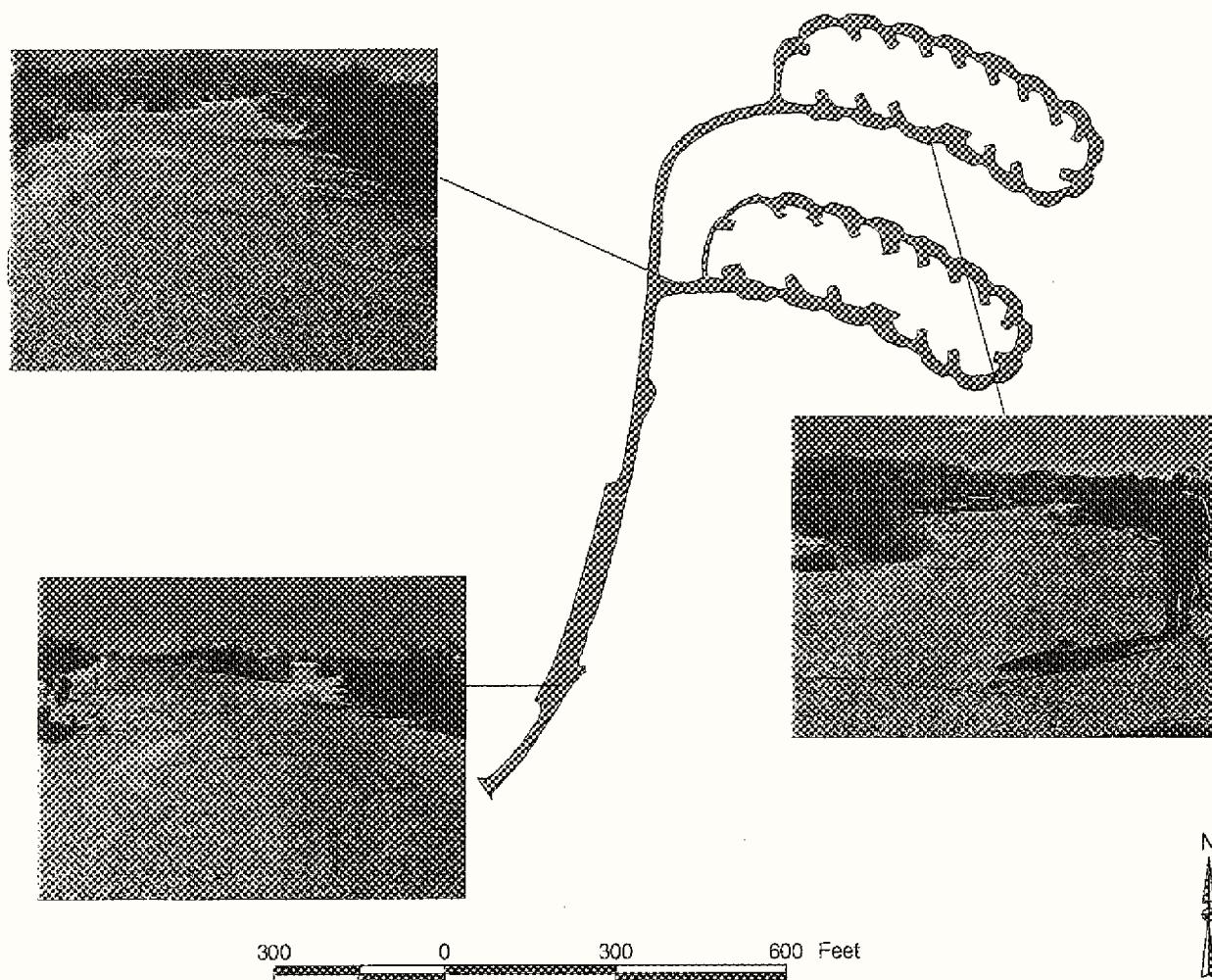
Joshua Tree National Park

Route 907P

Cottonwood Campground Loops A&B
From Rte 204 on left to end of loops

Route	State	Date Visited	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition
907P	CA	981118			109062.00	1.88	FAIR

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



Joshua Tree National Park

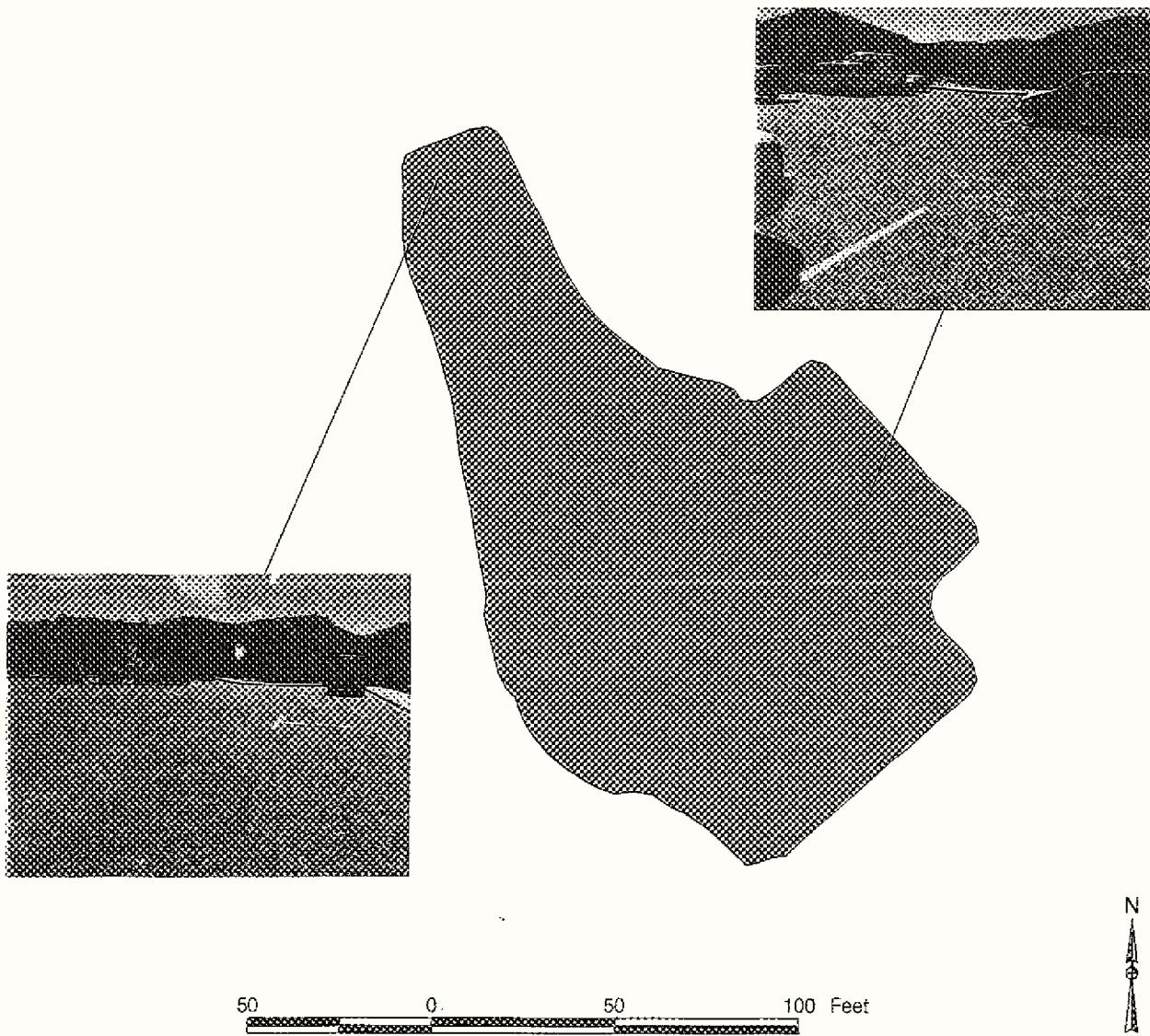
Route 908P

Cottonwood Springs Oasis Parking

From Rte 204 on left

Route	State	Date Visited	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition
908P	CA	981118			16551.00	0.29	FAIR

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



Joshua Tree National Park

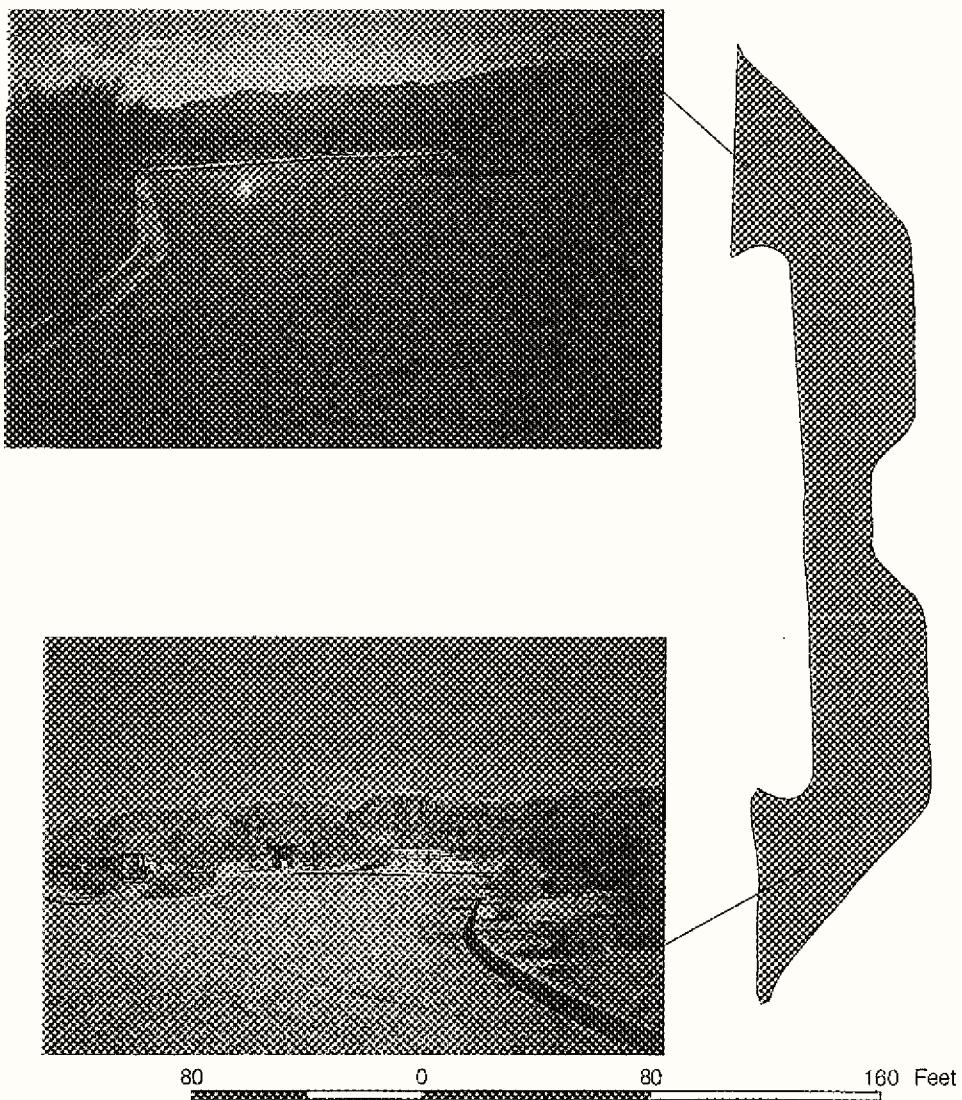
Route 909P

Bajada All Trail Parking

From Rte 011 on Right

Route	State	Date Visited	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition
909P	CA	981118			11503.00	0.20	GOOD

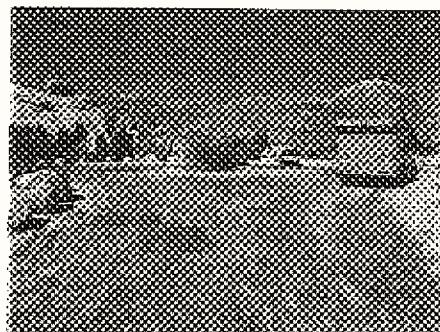
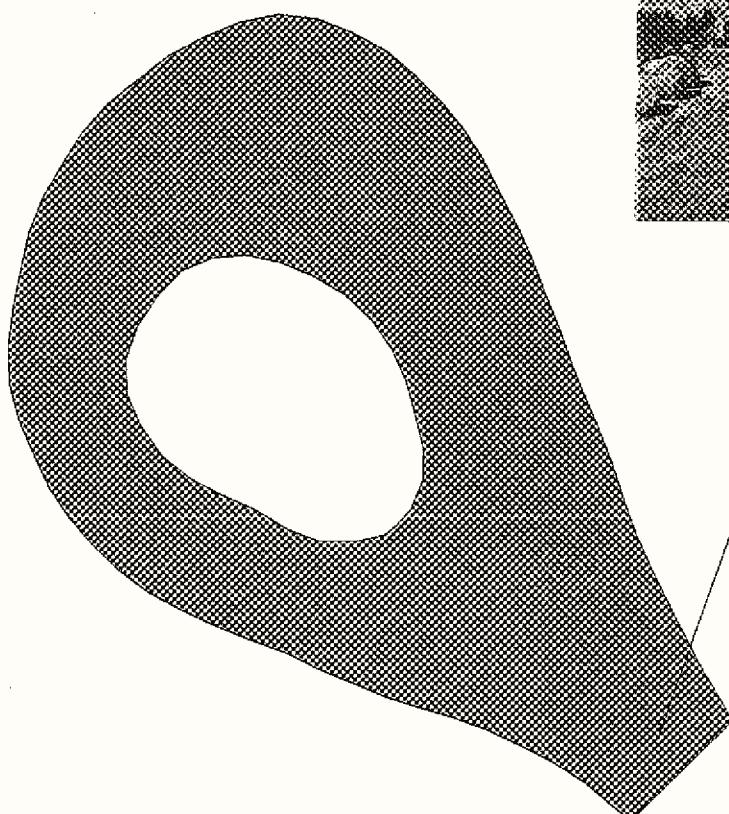
- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



Joshua Tree National Park
Route 910P
Split Rock Picnic Area
End of Rte 200

Route	State	Date Visited	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition
910P	CA	981120			5369.00	0.09	FAIR

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



Joshua Tree National Park

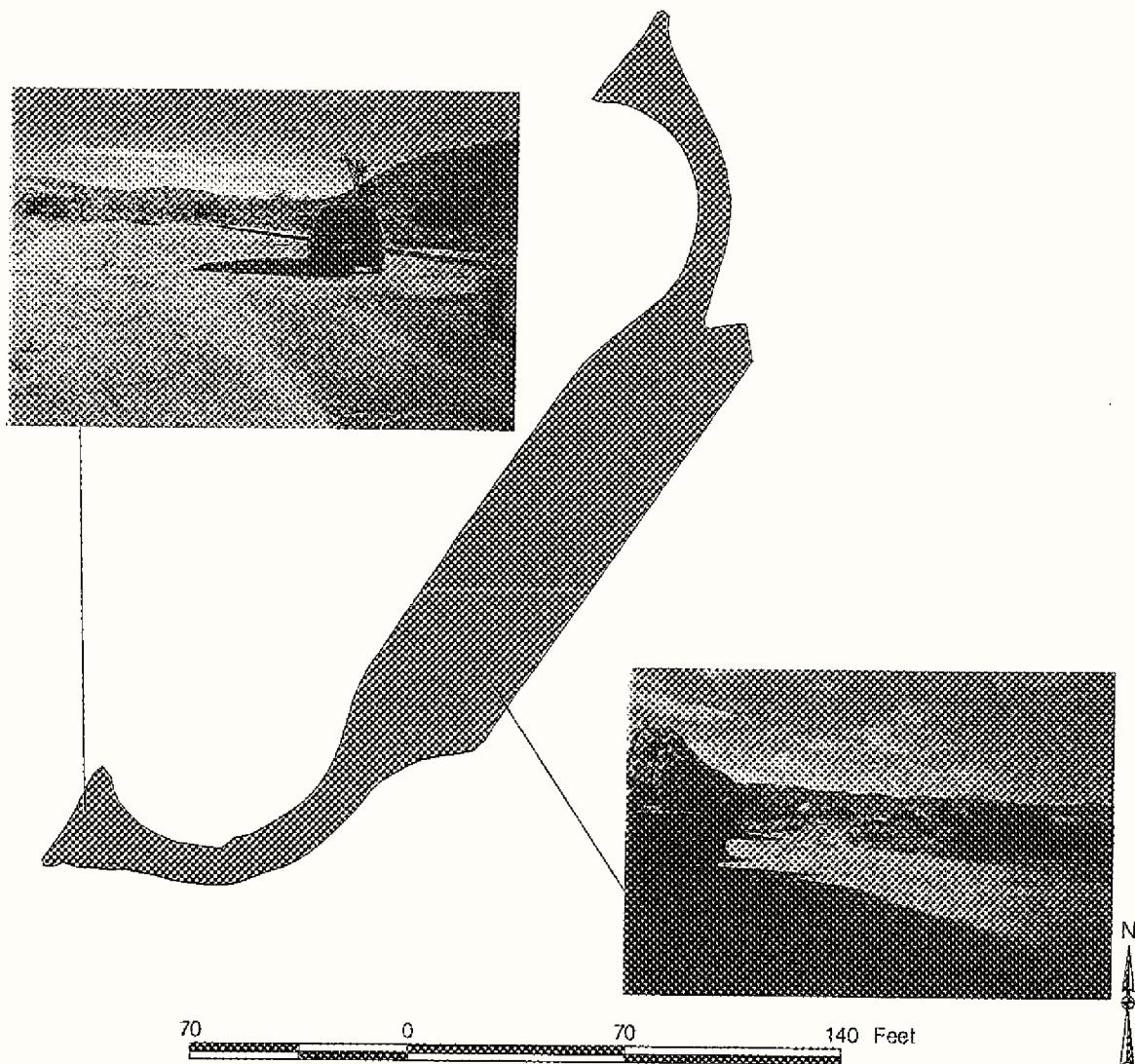
Route 911P

Ryan Mountain Trailhead Parking

From Rte 012 East to Rte 012 West

Route	State	Date Visited	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition
911P	CA	981119			10603.00	0.18	POOR

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



Joshua Tree National Park

Route 912P

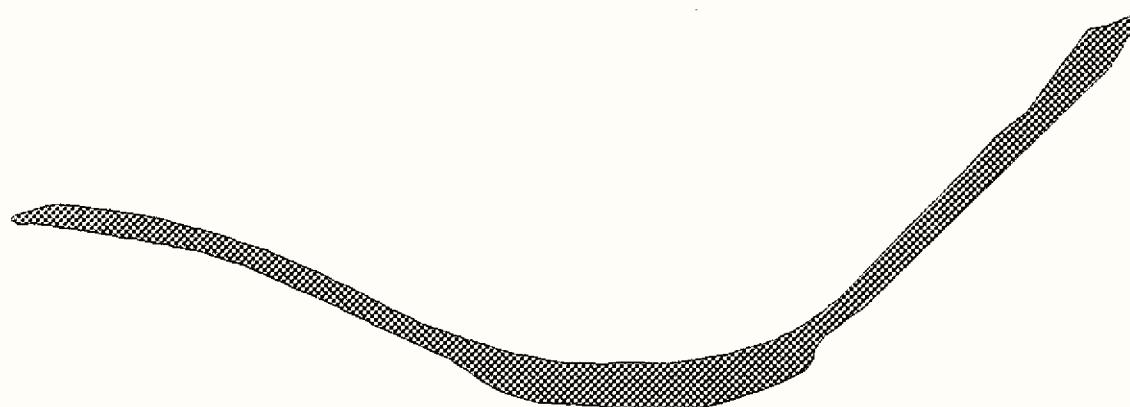
Oyster Bar Trailhead Parking

From Rte 012 East to Rte 012 West

Route	State	Date Visited	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition
912P	CA	981119			24825.00	0.43	POOR

- Length and width will be used when applicable

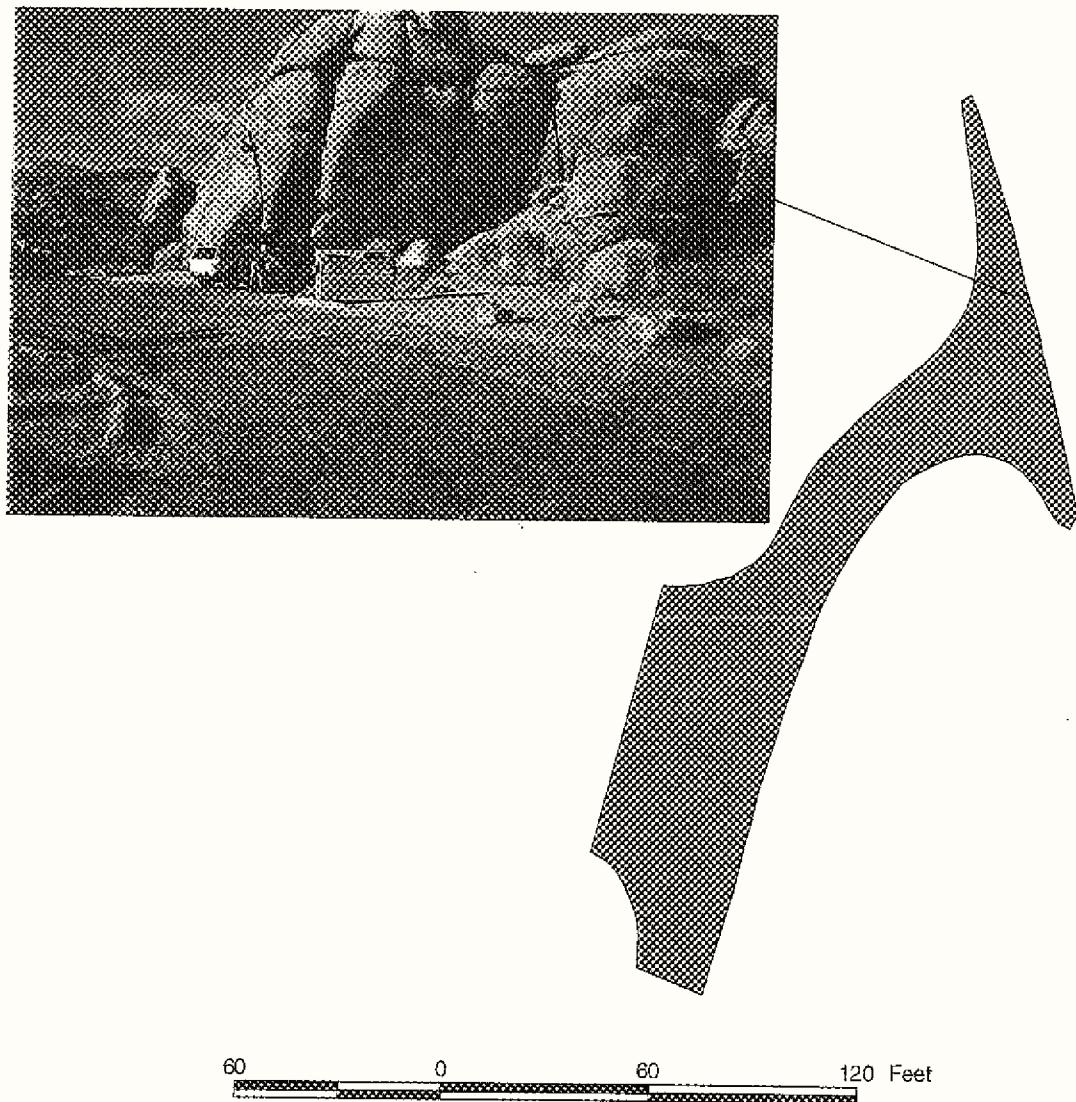
- Lane miles are based on 11' lane widths



Joshua Tree National Park
Route 913P
Quail Springs Parking Area
From Rte 012 on left

Route	State	Date Visited	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition
913P	CA	981919			8218.00	0.14	POOR

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



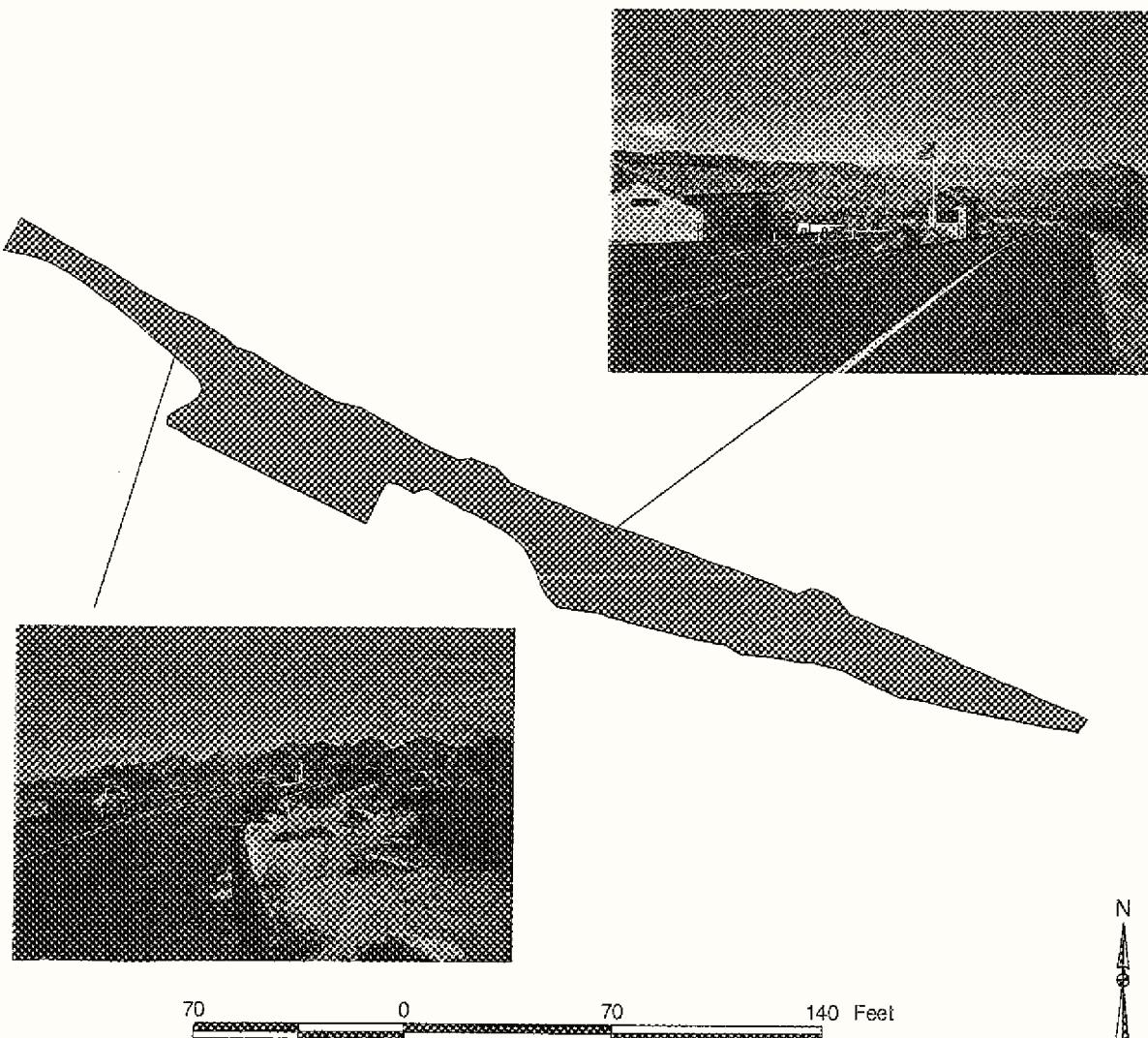
Joshua Tree National Park

Route 914P

Joshua Tree Entrance Station
From Rte 012 on left

Route	State	Date Visited	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition
914P	CA	981119			8052.00	0.14	FAIR

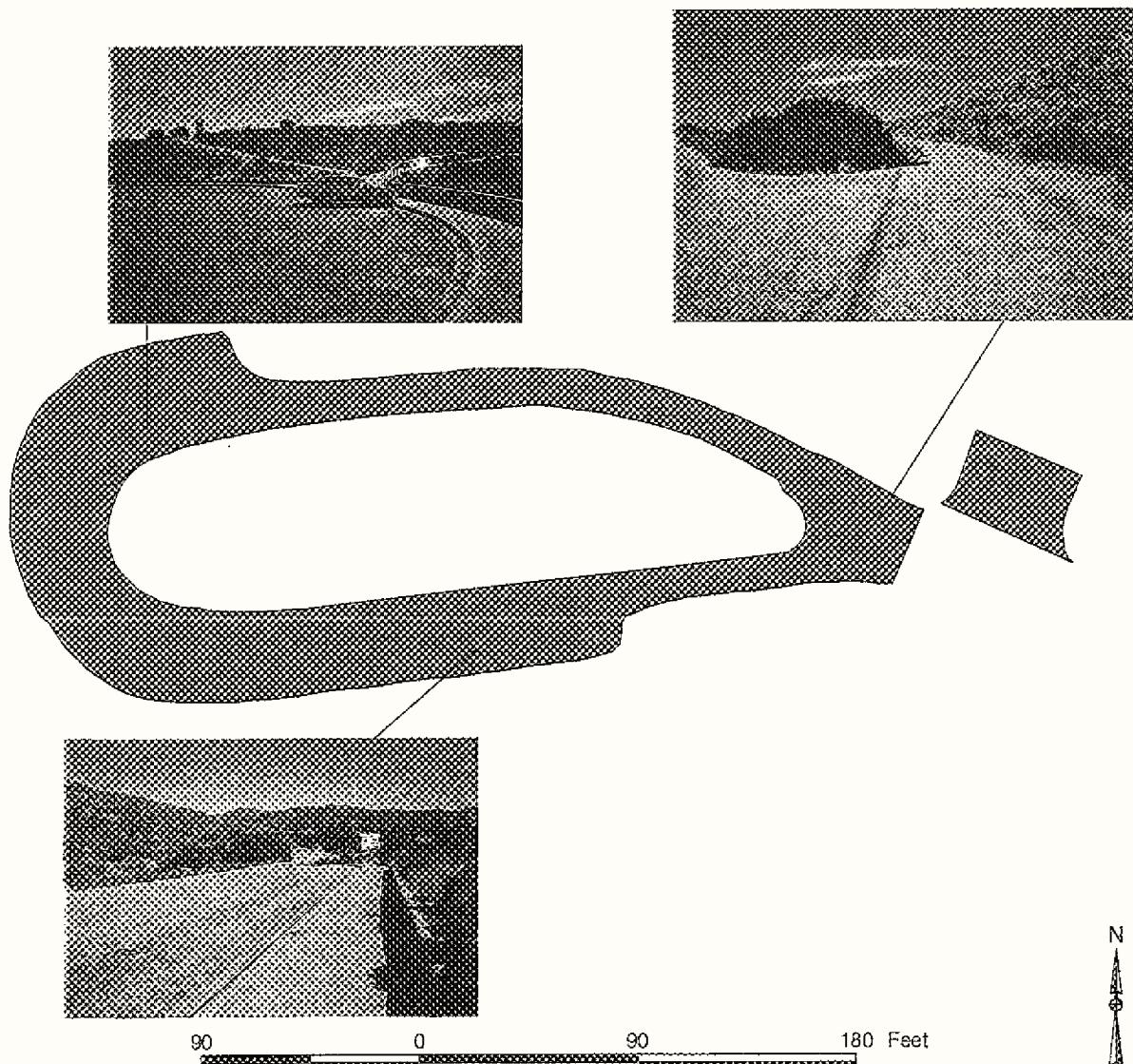
- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



Joshua Tree National Park
Route 915P
Keys View Parking
Loop at end of Rte 013

Route	State	Date Visited	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition
915P	CA	981119			22709.00	0.39	FAIR

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



Joshua Tree National Park

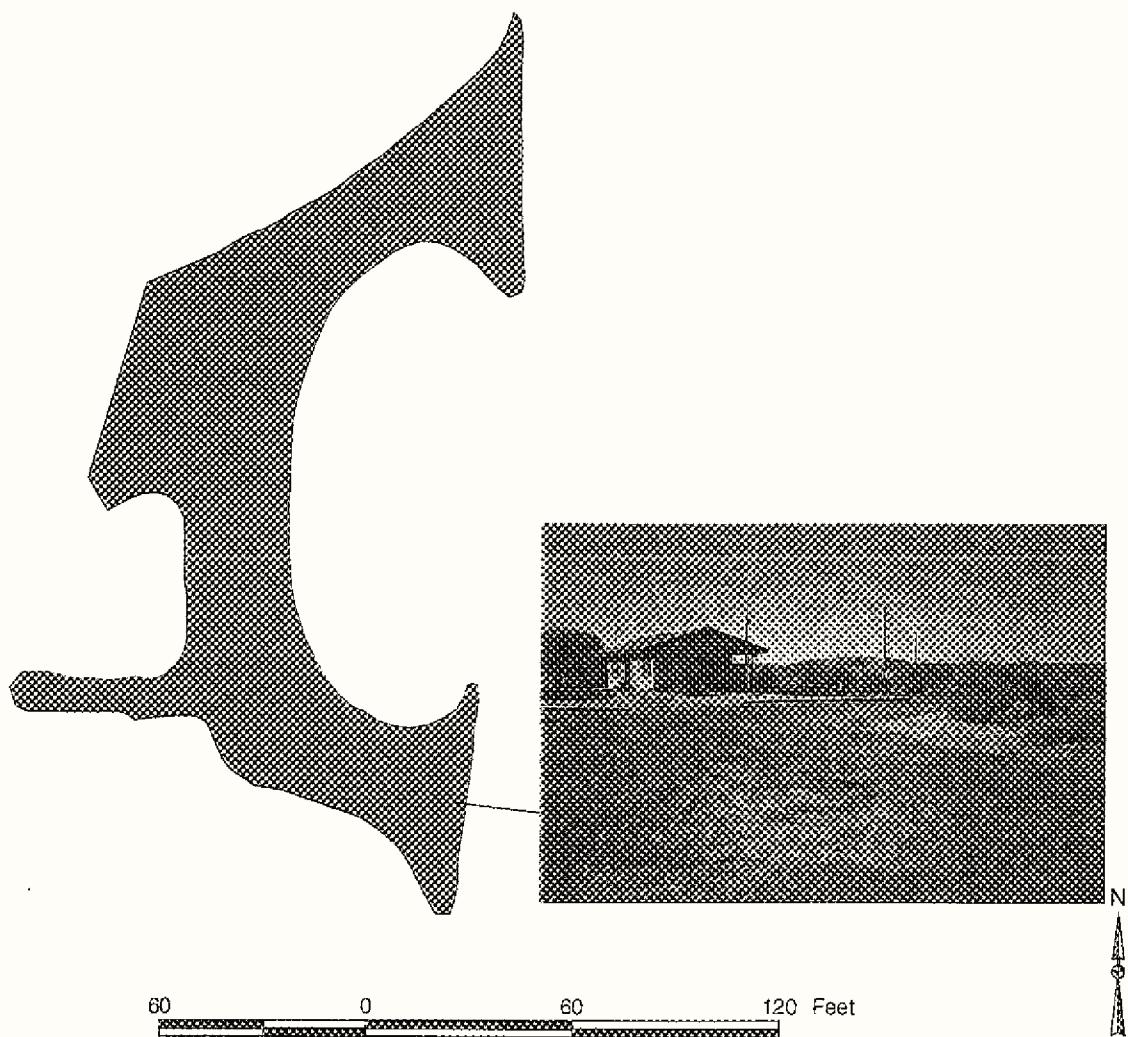
Route 916P

Indian Cove Contact Station

From Rte 212 on right

Route	State	Date Visited	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition
916P	CA	981119			11589.00	0.20	POOR

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths

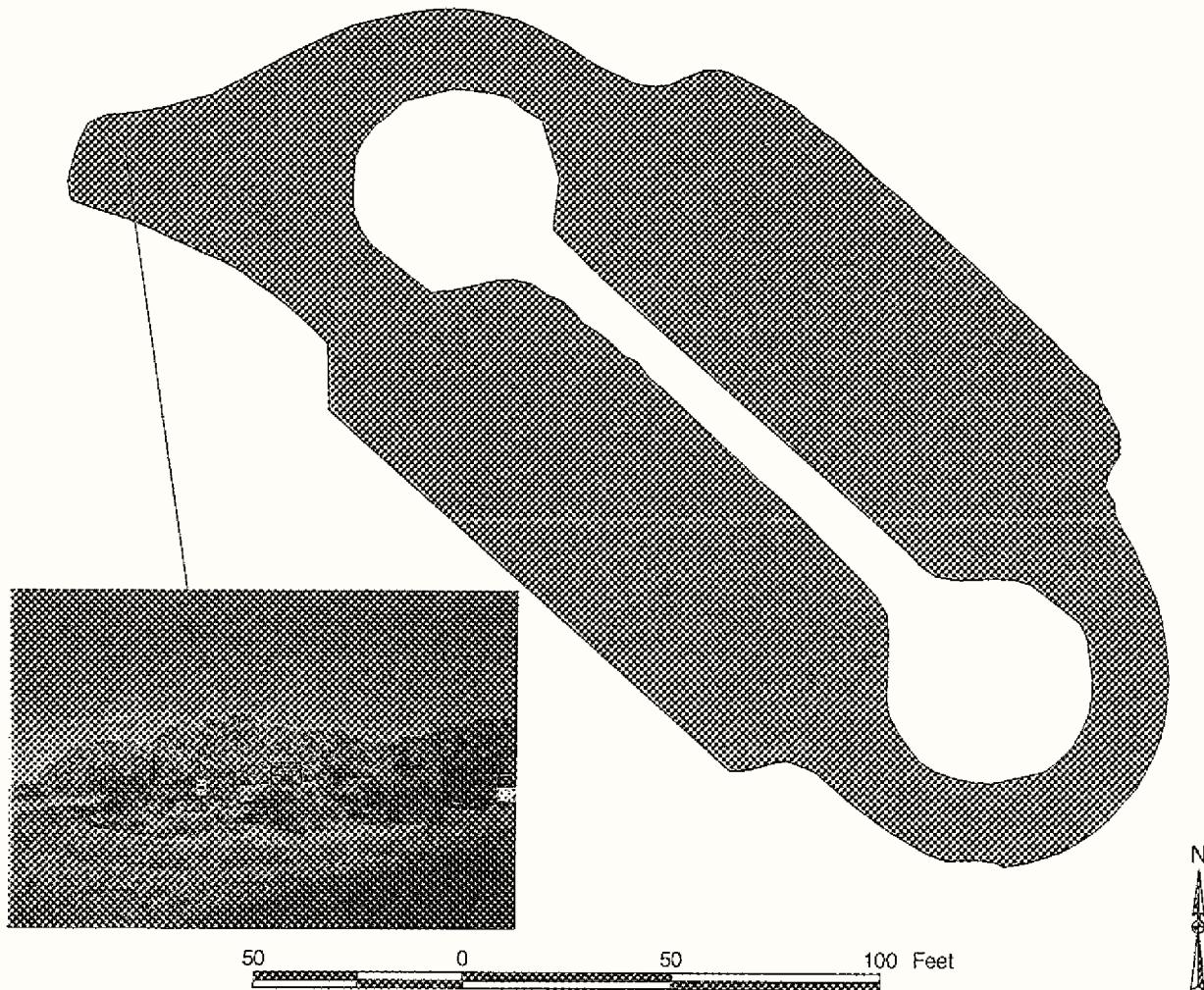


Joshua Tree National Park
Route 917P

49 Palms Oasis Parking
Parking at end of Rte 213

Route	State	Date Visited	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition
917P	CA	981119			23558.00	0.41	FAIR

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



Joshua Tree National Park

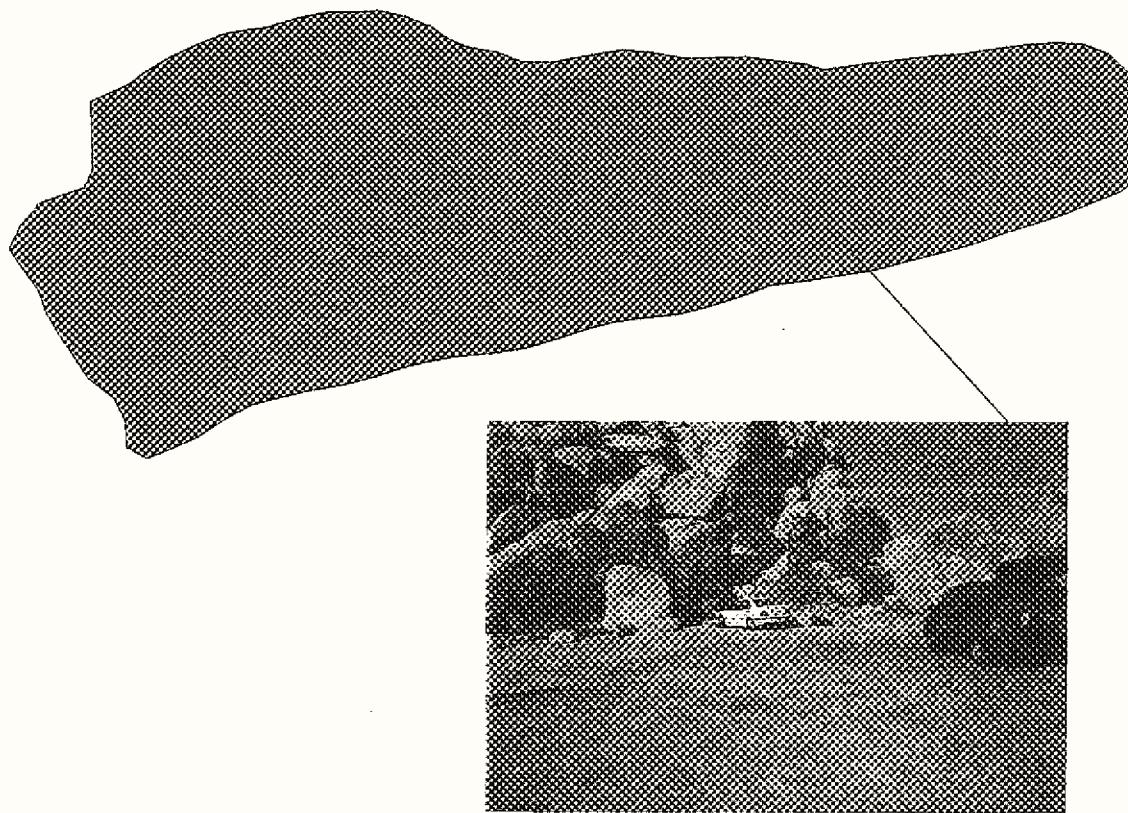
Route 918P

Hidden Valley Picnic Area

From Rte 012 on left to end

Route	State	Date Visited	Length (mi)	Width (ft)	Area (sq ft)	Lane Miles	Condition
918P	CA	981119			5530.00	0.10	POOR

- Length and width will be used when applicable
- Lane miles are based on 11' lane widths



30 0 30 60 Feet

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S
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W

PARKWIDE MAINTENANCE FEATURES SUMMARY

Western Region : JOTR : 8330

ICAP CODE	FEATURE	PARK TOTAL	UNIT
1152	PULLOUT (PAVED)	34	EACH
1153	INTERSECTION	23	EACH
1190	TURNOUT (PASSING LANE)	380	LINEAR FEET
1320	PAVED DITCH	295	LINEAR FEET
1331	CULVERT OPENING	17	EACH
1333	DROP INLET	0	EACH
1340	CURB	6691	LINEAR FEET
1530	TRAFFIC LIGHT	0	EACH
1540	GUARDRAIL	354	LINEAR FEET
1542	GUARD WALL	0	LINEAR FEET
1545	CATTLE GUARD	0	EACH
1720	BRIDGE	0	EACH
1740	TUNNEL	0	EACH
3361	RETAINING WALL	0	EACH
5833	LIGHT POLE	0	EACH
8390	OVERHEAD SIGN	0	EACH
8400	RAILROAD CROSSING	0	EACH
	PARK BOUNDARY	5	EACH

ROUTE MAINTENANCE FEATURES SUMMARY

Western Region : JOTR : 8330

ROUTE:011 : Pinto Basin Road

ICAP CODE	FEATURE	PARK TOTAL	UNIT
1152	PULLOUT (PAVED)	16	EACH
1153	INTERSECTION	7	EACH
1190	TURNOUT (PASSING LANE)	280	LINEAR FEET
1320	PAVED DITCH	295	LINEAR FEET
1331	CULVERT OPENING	2	EACH
1333	DROP INLET	0	EACH
1340	CURB	3174	LINEAR FEET
1530	TRAFFIC LIGHT	0	EACH
1540	GUARDRAIL	285	LINEAR FEET
1542	GUARD WALL	0	LINEAR FEET
1545	CATTLE GUARD	0	EACH
1720	BRIDGE	0	EACH
1740	TUNNEL	0	EACH
3361	RETAINING WALL	0	EACH
5833	LIGHT POLE	0	EACH
8390	OVERHEAD SIGN	0	EACH
8400	RAILROAD CROSSING	0	EACH
	PARK BOUNDARY	1	EACH

ROUTE MAINTENANCE FEATURES SUMMARY

Western Region : JOTR : 8330

ROUTE:012 : East - West Highway

ICAP CODE	FEATURE	PARK TOTAL	UNIT
1152	PULLOUT (PAVED)	15	EACH
1153	INTERSECTION	13	EACH
1190	TURNOUT (PASSING LANE)	0	LINEAR FEET
1320	PAVED DITCH	0	LINEAR FEET
1331	CULVERT OPENING	15	EACH
1333	DROP INLET	0	EACH
1340	CURB	3401	LINEAR FEET
1530	TRAFFIC LIGHT	0	EACH
1540	GUARDRAIL	0	LINEAR FEET
1542	GUARD WALL	0	LINEAR FEET
1545	CATTLE GUARD	0	EACH
1720	BRIDGE	0	EACH
1740	TUNNEL	0	EACH
3361	RETAINING WALL	0	EACH
5833	LIGHT POLE	0	EACH
8390	OVERHEAD SIGN	0	EACH
8400	RAILROAD CROSSING	0	EACH
	PARK BOUNDARY	2	EACH

ROUTE MAINTENANCE FEATURES SUMMARY

Western Region : JOTR : 8330

ROUTE:013 : Keys View Road

ICAP CODE	FEATURE	PARK TOTAL	UNIT
1152	PULLOUT (PAVED)	1	EACH
1153	INTERSECTION	0	EACH
1190	TURNOUT (PASSING LANE)	0	LINEAR FEET
1320	PAVED DITCH	0	LINEAR FEET
1331	CULVERT OPENING	0	EACH
1333	DROP INLET	0	EACH
1340	CURB	0	LINEAR FEET
1530	TRAFFIC LIGHT	0	EACH
1540	GUARDRAIL	0	LINEAR FEET
1542	GUARD WALL	0	LINEAR FEET
1545	CATTLE GUARD	0	EACH
1720	BRIDGE	0	EACH
1740	TUNNEL	0	EACH
3361	RETAINING WALL	0	EACH
5833	LIGHT POLE	0	EACH
8390	OVERHEAD SIGN	0	EACH
8400	RAILROAD CROSSING	0	EACH
	PARK BOUNDARY	0	EACH

ROUTE MAINTENANCE FEATURES SUMMARY

Western Region : JOTR : 8330

ROUTE:204 : Lost Palms Trail Road

ICAP CODE	FEATURE	PARK TOTAL	UNIT
1152	PULLOUT (PAVED)	2	EACH
1153	INTERSECTION	2	EACH
1190	TURNOUT (PASSING LANE)	100	LINEAR FEET
1320	PAVED DITCH	0	LINEAR FEET
1331	CULVERT OPENING	0	EACH
1333	DROP INLET	0	EACH
1340	CURB	116	LINEAR FEET
1530	TRAFFIC LIGHT	0	EACH
1540	GUARDRAIL	0	LINEAR FEET
1542	GUARD WALL	0	LINEAR FEET
1545	CATTLE GUARD	0	EACH
1720	BRIDGE	0	EACH
1740	TUNNEL	0	EACH
3361	RETAINING WALL	0	EACH
5833	LIGHT POLE	0	EACH
8390	OVERHEAD SIGN	0	EACH
8400	RAILROAD CROSSING	0	EACH
	PARK BOUNDARY	0	EACH

ROUTE MAINTENANCE FEATURES SUMMARY

Western Region : JOTR : 8330

ROUTE:212 : Indian Cove Campground Road

ICAP CODE	FEATURE	PARK TOTAL	UNIT
1152	PULLOUT (PAVED)	0	EACH
1153	INTERSECTION	1	EACH
1190	TURNOUT (PASSING LANE)	0	LINEAR FEET
1320	PAVED DITCH	0	LINEAR FEET
1331	CULVERT OPENING	0	EACH
1333	DROP INLET	0	EACH
1340	CURB	0	LINEAR FEET
1530	TRAFFIC LIGHT	0	EACH
1540	GUARDRAIL	0	LINEAR FEET
1542	GUARD WALL	0	LINEAR FEET
1545	CATTLE GUARD	0	EACH
1720	BRIDGE	0	EACH
1740	TUNNEL	0	EACH
3361	RETAINING WALL	0	EACH
5833	LIGHT POLE	0	EACH
8390	OVERHEAD SIGN	0	EACH
8400	RAILROAD CROSSING	0	EACH
	PARK BOUNDARY	1	EACH

ROUTE MAINTENANCE FEATURES SUMMARY

Western Region : JOTR : 8330

ROUTE:213 : Canyon Road

ICAP CODE	FEATURE	PARK TOTAL	UNIT
1152	PULLOUT (PAVED)	0	EACH
1153	INTERSECTION	0	EACH
1190	TURNOUT (PASSING LANE)	0	LINEAR FEET
1320	PAVED DITCH	0	LINEAR FEET
1331	CULVERT OPENING	0	EACH
1333	DROP INLET	0	EACH
1340	CURB	0	LINEAR FEET
1530	TRAFFIC LIGHT	0	EACH
1540	GUARDRAIL	0	LINEAR FEET
1542	GUARD WALL	0	LINEAR FEET
1545	CATTLE GUARD	0	EACH
1720	BRIDGE	0	EACH
1740	TUNNEL	0	EACH
3361	RETAINING WALL	0	EACH
5833	LIGHT POLE	0	EACH
8390	OVERHEAD SIGN	0	EACH
8400	RAILROAD CROSSING	0	EACH
	PARK BOUNDARY	1	EACH

ROUTE MAINTENANCE FEATURES SUMMARY

Western Region : JOTR : 8330

ROUTE:400 : Maintenance Station Road

ICAP CODE	FEATURE	PARK TOTAL	UNIT
1152	PULLOUT (PAVED)	0	EACH
1153	INTERSECTION	0	EACH
1190	TURNOUT (PASSING LANE)	0	LINEAR FEET
1320	PAVED DITCH	0	LINEAR FEET
1331	CULVERT OPENING	0	EACH
1333	DROP INLET	0	EACH
1340	CURB	0	LINEAR FEET
1530	TRAFFIC LIGHT	0	EACH
1540	GUARDRAIL	69	LINEAR FEET
1542	GUARD WALL	0	LINEAR FEET
1545	CATTLE GUARD	0	EACH
1720	BRIDGE	0	EACH
1740	TUNNEL	0	EACH
3361	RETAINING WALL	0	EACH
5833	LIGHT POLE	0	EACH
8390	OVERHEAD SIGN	0	EACH
8400	RAILROAD CROSSING	0	EACH
	PARK BOUNDARY	0	EACH

ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 011

PINTO BASIN ROAD

MILE POST BEGIN	MILE POST END	FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGHT	REMARKS
0.000	0.000			Rte 12, Begin of Route
0.037	0.000	Intersection		Rte 400
1.307	0.000	Intersection		Rte 205
1.638	0.000	Pullout		
2.192	0.000		Intersection	Rte 902
2.677	0.000	Intersection		Rte 206
3.108	0.000		Intersection	Rte 903
5.352	0.000	Pullout		
6.936	0.000		Pullout	
7.125	7.169		Ditch	
7.180	7.192		Ditch	
21.108	0.000		Culvert	
25.219	0.000	Pullout		
29.655	0.000	Intersection		Rte 904
29.723	0.000	Intersection		Rte 204
30.083	0.000		Culvert	
31.520	31.575		Curb	
31.545	0.000		Pullout	
31.855	31.887	Curb		
31.873	0.000	Pullout		
31.839	32.016		Curb	
31.865	0.000		Pullout	
31.943	31.988	Curb		Rte 205
31.966	0.000	Pullout		
32.264	32.308	Curb		
32.288	0.000	Pullout		
32.359	32.402		Curb	
32.377	0.000		Pullout	
33.012	33.054		Curb	
33.034	0.000		Pullout	
33.540	33.593	Curb		
33.556	33.610		Curb	
33.569	0.000	Pullout		
33.578	0.000		Pullout	
34.445	34.500		Curb	
34.471	0.000		Pullout	Rte 909
34.529	34.583	Guardrail		Rte 206
34.587	0.000	Pullout		
35.105	35.158	Turnout		
35.268	0.000	Pullout		
35.535	0.000		Boundary	
35.560	0.000			End Of Route

ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 012

EAST - WEST HIGHWAY

MILE POST BEGIN	MILE POST END	FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGHT	REMARKS
0.000	0.000			Beginning of Route
0.002	0.000		Boundary	
0.958	0.000	Culvert		
0.978	0.000		Culvert	
1.616	1.767	Curb		
4.279	0.000	Culvert		
4.392	0.000	Culvert		
4.466	4.504	Curb		
4.486	0.000	Pullout		
4.580	0.000	Intersection		Rte 011
4.889	4.715	Curb		
4.703	0.000	Pullout		
5.030	5.049		Curb	
5.041	0.000		Pullout	
5.602	5.637		Curb	
5.614	0.000		Pullout	
5.617	5.649	Curb		
5.635	0.000	Pullout		
5.636	0.000	Culvert		
6.181	6.205	Curb		
6.192	0.000	Pullout		
6.594	6.615		Curb	
6.805	0.000		Pullout	
6.822	6.850	Curb		
6.636	0.000	Pullout		
6.776	0.000	Intersection		Rte 910
6.813	0.000		Intersection	
7.132	7.161		Curb	
7.145	0.000		Pullout	
7.405	7.448	Curb		
7.422	0.000	Pullout		
7.438	7.477		Curb	
7.457	0.000		Pullout	
7.578	0.000		Culvert	
7.788	0.000	Culvert		
7.859	0.000		Culvert	
8.044	0.000	Intersection		Rte 203
9.099	9.124	Curb		
9.110	0.000	Pullout		
9.475	9.509		Curb	
9.492	0.000		Pullout	Geology Tour rd.
12.118	0.000	Intersection		Rte 211
12.730	0.000	Intersection		Rte 911
12.887	0.000	Intersection		Rte 912
13.920	0.000	Intersection		Ryan Campground Road

ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 012

EAST - WEST HIGHWAY

MILE POST BEGIN	MILE POST END	FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGHT	REMARKS
13.978	0.000	Intersection		Rte 013
14.682	0.000	Intersection		
16.645	0.000		Intersection	
16.647	0.000	Intersection		Dirt Road
19.589	0.000	Intersection		Rte 913
21.450	21.502		Curb	
21.475	0.000		Pullout	
21.876	0.000		Culvert	
22.802	0.000		Culvert	
22.997	23.044	Curb		
23.023	0.000	Pullout		
24.190	0.000	Culvert		
24.469	0.000	Culvert		
24.484	0.000		Culvert	
24.936	0.000	Culvert		
24.952	0.000		Culvert	
25.440	0.000	Boundary		End of Route

ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE ROUTE 013

KEYS VIEW ROAD

MILE POST BEGIN	MILE POST END	FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGHT	REMARKS
0.000	0.000			Beginning of Route
2.400	0.000		Intersection	Rte 106
5.151	0.000	Pullout		
5.440	0.000			End of Route

ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 200

Split Rock Road

MILE POST BEGIN END	FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGHT	REMARKS
0.000 0.000			Begin Route
0.500 0.000			End Route

ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 204

LOST PALMS TRAIL ROAD

MILE POST BEGIN	MILE POST END	FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGHT	REMARKS
0.000	0.000			Beginning of Route
0.268	0.000	Intersection		Rte 905
0.454	0.473	Turnout		
0.605	0.000	Pullout		
0.697	0.000	Intersection		Rte 907
0.832	0.854	Curb		
0.842	0.000	Pullout		
1.100	0.000			End of Route

ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 205

Belle Campground Road

MILE POST BEGIN END	FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGHT	REMARKS
0.000 0.000			Begin Route
0.100 0.000			End of Route

ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 206

White Tank Campground Road

MILE POST BEGIN	MILE POST END	FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGHT	REMARKS
0.000	0.000			Begin Route
0.100	0.000			End Route

ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 208

Hidden Valley Picnic

MILE POST BEGIN END	FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGHT	REMARKS
0.000 0.000			Begin Route
0.320 0.000			End Route

ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 211

Sheep Pass Campground Road

MILE POST BEGIN	MILE POST END	FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGHT	REMARKS
0.000	0.000			Begin Rte
0.280	0.000			End Route at end of Pymnt

ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 212

INDIAN COVE CAMPGROUND

MILE POST BEGIN END	FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGHT	REMARKS
0.000 0.000			Begin Route
0.004 0.000		Boundary	
0.045 0.000		Intersection	Rte 916
1.680 0.000			End Route at campground loop

ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 213

CANYON ROAD

MILE POST BEGIN END	FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGHT	REMARKS
0.000 0.000			Begin Route
0.830 0.000		Boundary	
1.260 0.000			End Route

ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 400

MAINTENANCE STATION ROAD

MILE POST BEGIN END	FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGHT	REMARKS
0.000 0.000			Begin Route
0.483 0.496	Guardrail		
0.500 0.000		Gate	End of Route

ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 011

PINTO BASIN ROAD

MILE POST BEGIN	FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGHT	REMARKS
0.000	0.000	Intersection	Rte 12, Begin of Route
0.037	0.000 Intersection		Rte 400
1.307	0.000 Intersection		Rte 205
1.638	0.000 Pullout		
2.192	0.000	Intersection	Rte 902
2.677	0.000 Intersection		Rte 206
3.108	0.000	Parking Lot	Rte 903
5.352	0.000 Pullout		
6.336	7.125	Ditch	
7.169	7.180	Ditch	
7.192	0.000	Culvert	
21.108	0.000	Culvert	
25.219	0.000 Pullout		
29.835	0.000 Intersection		Rte 804
29.723	0.000 Intersection		Rte 204
30.083	31.545	Curb	
31.620	0.000	Pullout	
31.875	31.865	Curb	
31.855	31.887 Curb		
31.873	0.000 Pullout		
31.839	0.000	Pullout	
31.943	31.968 Curb		
31.966	0.000 Pullout		
32.016	32.377	Curb	
32.264	32.309 Curb		
32.288	0.000 Pullout		
32.359	0.000	Pullout	
32.402	33.034	Curb	
33.012	0.000	Pullout	
33.054	33.578	Curb	
33.540	33.593 Curb		
33.556	0.000	Pullout	
33.669	0.000 Pullout		
33.610	34.471	Curb	
34.445	0.000	Pullout	
34.500	0.000	Boundary	
34.529	34.583 Guardrail		
34.657	0.000 Pullout		
35.105	35.158 Turnout		
35.268	0.000 Parking Lot		Rte 909
35.528	0.000 Boundary		End Of Route

ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 012

EAST - WEST HIGHWAY

MILE POST BEGIN	MILE POST END	FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGHT	REMARKS
0.000	0.000		Boundary	Beginning of Route
0.002	0.000		Culvert	
0.05	0.000	Boundary		
0.958	0.000	Culvert		
0.978	5.041		Curb	
1.616	1.787	Curb		
4.279	0.000	Culvert		
4.392	0.000	Culvert		
4.488	4.504	Curb		
4.486	0.000	Pullout		
4.590	0.000	Intersection		Rte 11
4.689	4.715	Curb		
4.706	0.000	Pullout		
5.030	0.000		Pullout	
5.049	5.614		Curb	
5.602	0.000		Pullout	
5.617	5.649	Curb		
5.635	0.000	Pullout		
5.637	6.605		Curb	
5.836	0.000	Culvert		
6.131	6.206	Curb		
6.192	0.000	Pullout		
6.594	0.000		Pullout	
6.615	0.000		Intersection	
6.622	5.650	Curb		
6.636	0.000	Pullout		
6.776	0.000	Intersection		Rte 910
6.813	7.145		Curb	
7.132	0.000		Pullout	
7.161	7.457		Curb	
7.406	7.449	Curb		
7.422	0.000	Pullout		
7.438	0.000		Pullout	
7.477	0.000		Culvert	
7.678	0.000		Culvert	
7.788	0.000	Culvert		
7.859	9.492		Curb	
8.044	0.000	Intersection		Rte 208
9.099	9.124	Curb		
9.110	0.000	Pullout		
9.475	0.000		Pullout	
9.509	0.000		Intersection	Geology Tour rd.
12.118	0.000	Intersection		Rte 211
12.730	0.000	Intersection		Rte 911
12.887	0.000	Intersection		Rte 912

ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 012

EAST - WEST HIGHWAY

MILE POST BEGIN	MILE POST END	FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGHT	REMARKS
13.920	0.000	Intersection		Ryan Campground Road
13.978	0.000	Intersection		Rte 973
14.882	0.000		Intersection	
16.645	21.475		Curb	
16.847	0.000	Intersection		Dirt Road
19.589	0.000	Intersection		Rte 973
21.450	0.000		Pullout	
21.502	0.000		Culvert	
21.876	0.000		Culvert	
22.802	0.000		Culvert	
22.997	23.044	Curb		
23.028	0.000	Pullout		
24.190	0.000	Culvert		
24.469	0.000	Culvert		
24.484	0.000		Culvert	
24.936	0.000	Culvert		
25.457	0.000	Boundary		End of Route

ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE ROUTE 013

KEYS VIEW ROAD

MILE POST BEGIN	MILE POST END	FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGHT	REMARKS
0.000	0.000			Beginning of Route
2.400	0.000		Intersection	Rte 106
5.460	0.000			End of Route

ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 200

Split Rock Road

MILE POST BEGIN END	FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGHT	REMARKS
0.000 0.000			Begin Route
0.540 0.000			End Route

ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 203

Jumbo Rock Campground

MILE POST BEGIN END	FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGHT	REMARKS
0.000 0.000			Begin of Rte
2.040 0.000			End of Rte

ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 204

LOST PALMS TRAIL ROAD

MILE POST BEGIN	MILE POST END	FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGHT	REMARKS
0.000	0.000			Beginning of Route
0.268	0.000	Intersection		Rte 905
0.454	0.473	Turnout		
0.605	0.000	Pullout		
0.697	0.000	Intersection		Rte 907
0.832	0.854	Curb		
0.842	0.000	Pullout		
1.130	0.000			End of Route

ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 205

Belle Campground Road

MILE POST BEGIN END	FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGHT	REMARKS
0.000 0.000			Begin Route
0.120 0.000			End of Route

ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 206

White Tank Campground Road

MILE POST BEGIN END	FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGHT	REMARKS
0.000 0.000			Begin Route
0.140 0.000			End Route

ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 207

Hidden Valley Campground

MILE POST BEGIN END	FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGHT	REMARKS
0.000 0.000			Begin Rte
0.420 0.000			End Rte

ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 208

Hidden Valley Picnic

MILE POST BEGIN END	FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGHT	REMARKS
0.000 0.000			Begin Route
0.350 0.000			End Route

ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 209

Ryan Campground Road

MILE POST BEGIN END	FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGHT	REMARKS
0.000 0.000			Begin Route
0.800 0.000			End Route

ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 211

Sheep Pass Campground Road

MILE POST BEGIN	MILE POST END	FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGHT	REMARKS
0.000	0.000			Begin Rte
0.290	0.000			End Route at end of Pvmnt

ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 212

INDIAN COVE CAMPGROUND

MILE POST BEGIN END	FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGHT	REMARKS
0.000 0.000		Boundary	Begin Route
0.004 0.000		Intersection	Rte 916
7.950 0.000			End Route

ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 213

CANYON ROAD

MILE POST BEGIN	MILE POST END	FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGHT	REMARKS
0.000	0.000		Boundary	Begin Route
0.821	0.000	Boundary		End Route

ROUTE MAINTENANCE FEATURES ROAD LOG

ROUTE 400

MAINTENANCE STATION ROAD

MILE POST BEGIN END	FEATURE DESCRIPTION LEFT	FEATURE DESCRIPTION RIGHT	REMARKS
0.000 0.000			Begin Route
0.483 0.496	Guardrail		
0.520 0.000		Gate	End of Route

PHOTOGRAPHIC SHEET

PARK NUMBER: 8330

ROUTE NUMBER: 011

DATE: 11/98

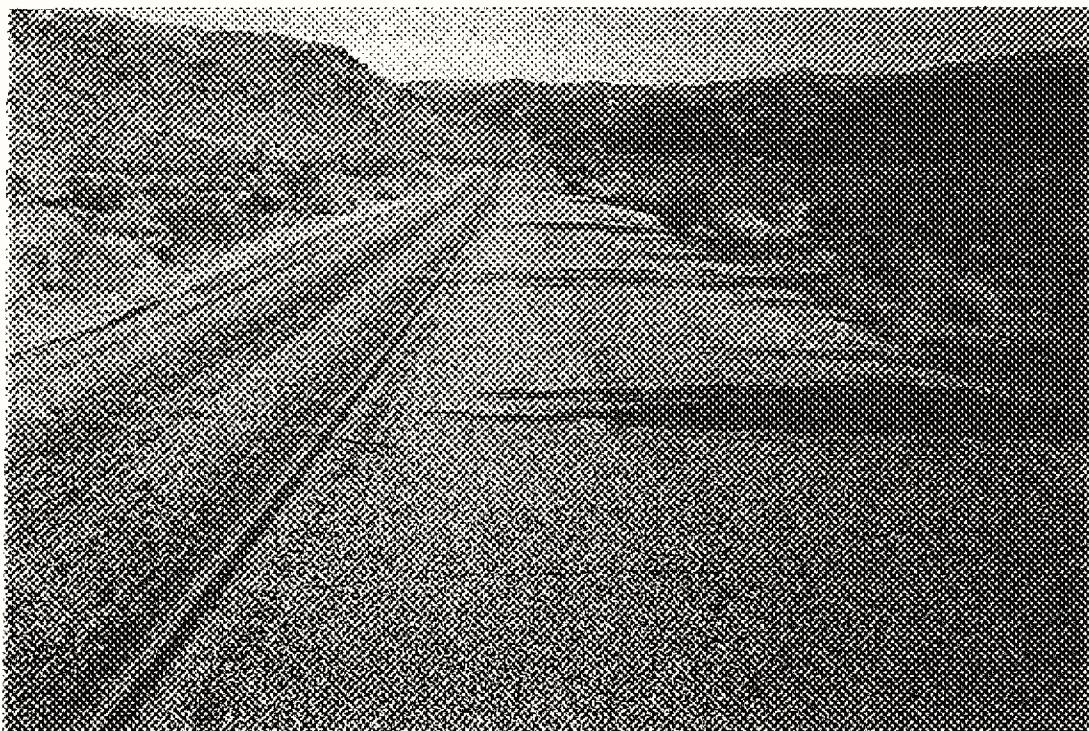


Photo # 2-22 MP 0.0 Typical pavement section

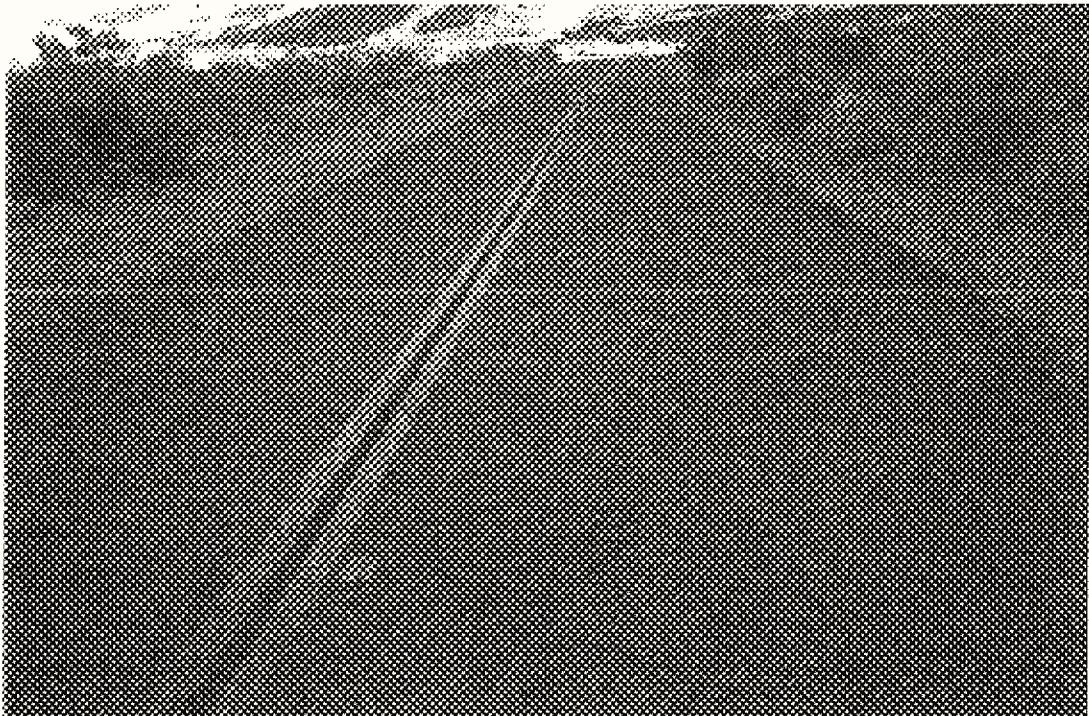


Photo #2-23 MP 5.6 Typical pavement section

PHOTOGRAPHIC SHEET

PARK NUMBER: 8330

ROUTE NUMBER: 011

DATE: 11/98

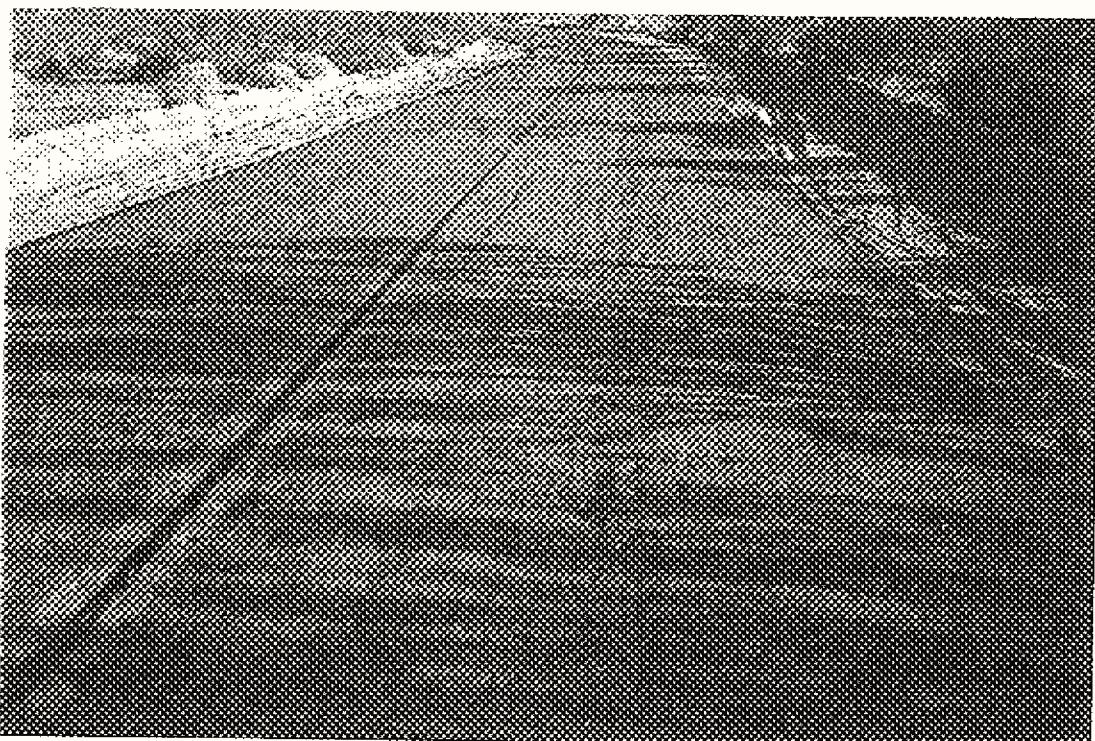


Photo #2-24 MP 7.5 Typical pavement section

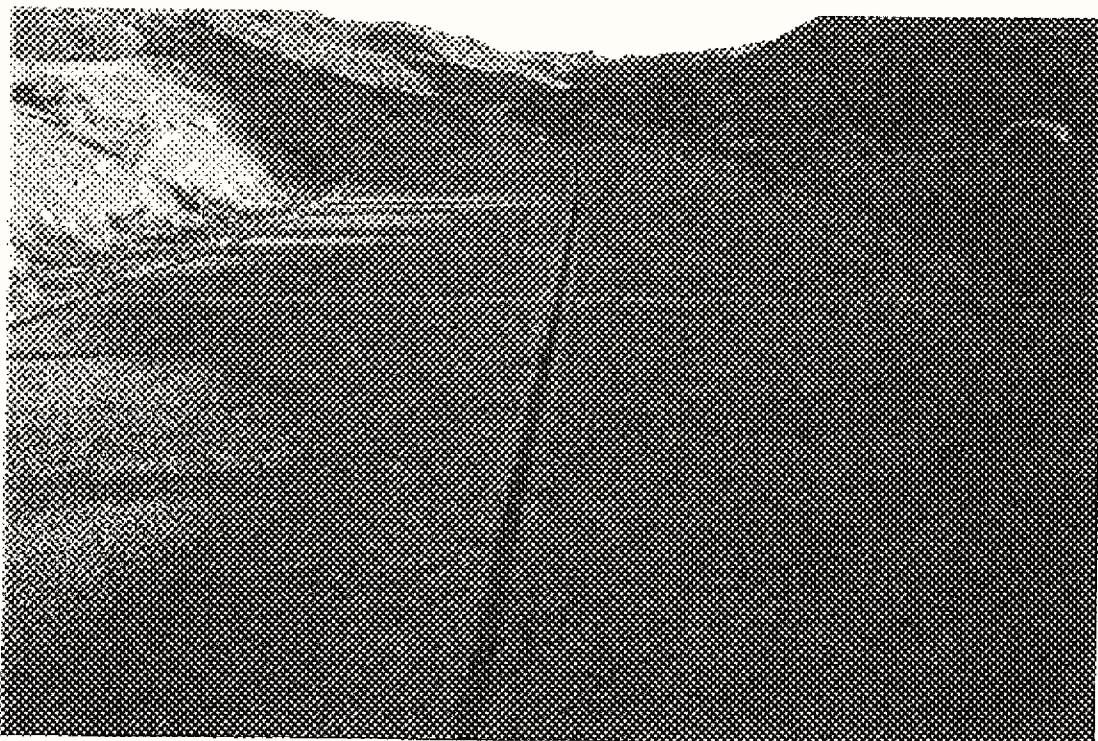


Photo #2-25 MP 12.0 Typical pavement section

PHOTOGRAPHIC SHEET

PARK NUMBER: 8330

ROUTE NUMBER: 012

DATE: 11/98

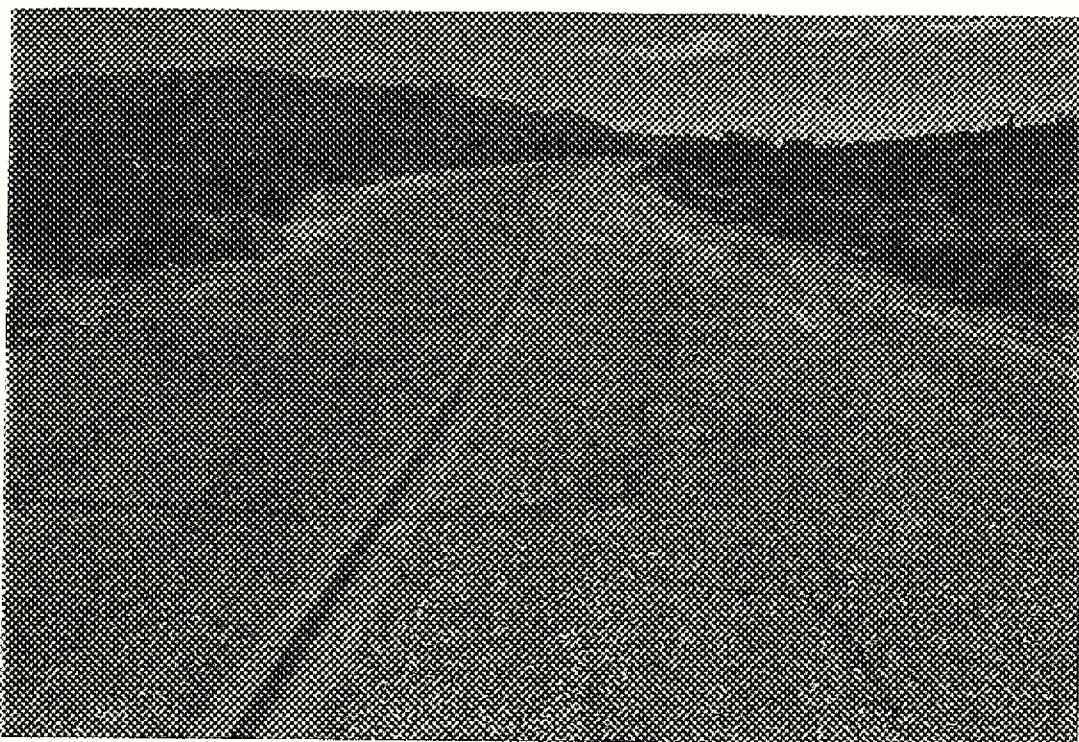


Photo #I-01 MP 0.0 North entrance, typical pavement section

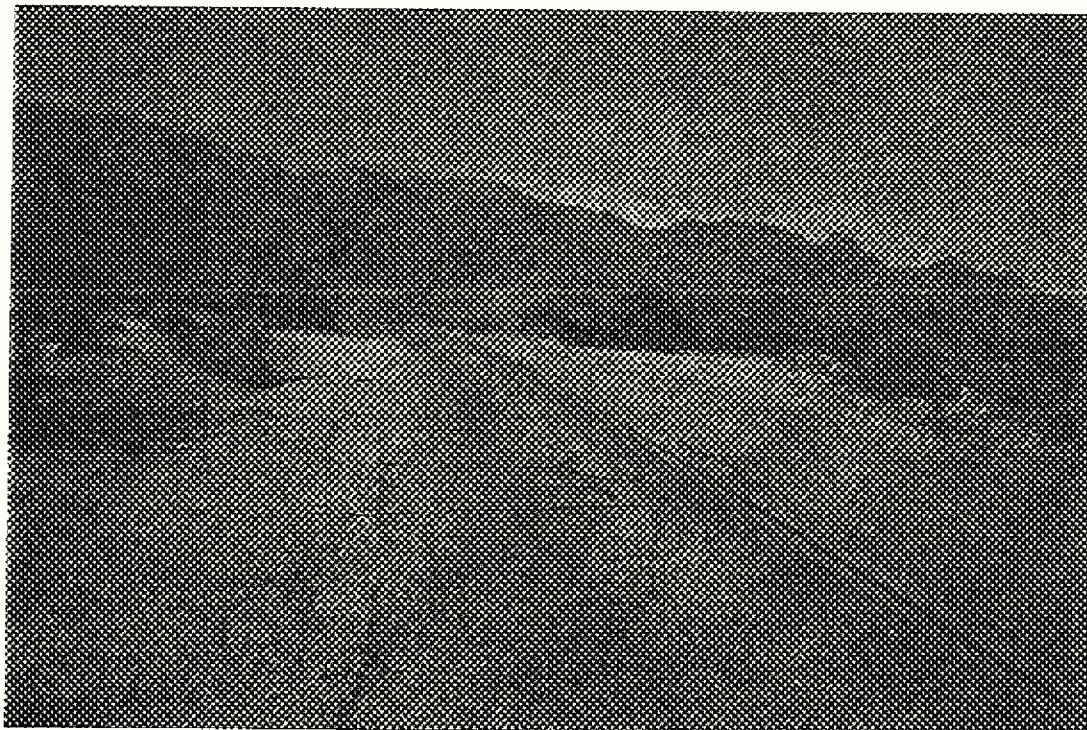


Photo #I-03 MP 0.6 Sealed cracks, typical pavement section

PHOTOGRAPHIC SHEET

PARK NUMBER: 8330
ROUTE NUMBER: 012
DATE: 11/98

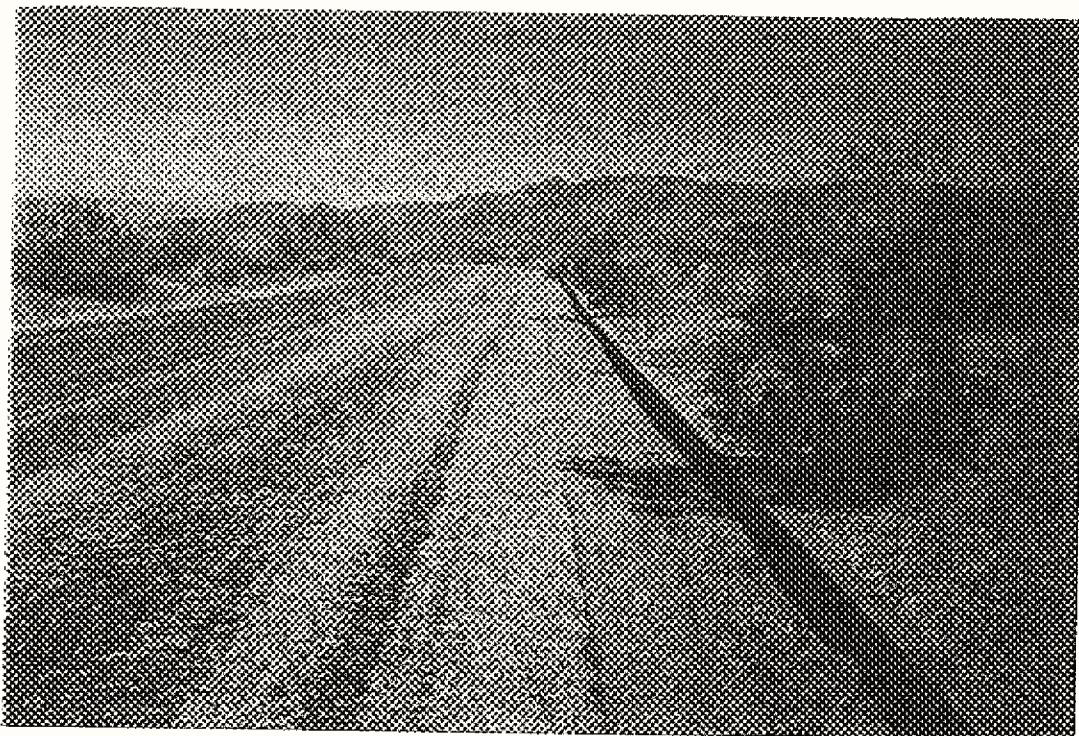


Photo #1-04 MP 1.7 Curb & gutter, typical section



Photo #1-05 MP 2.4 Eroded edge of pavement

PHOTOGRAPHIC SHEET

PARK NUMBER: 8330

ROUTE NUMBER: 012

DATE: 11/98

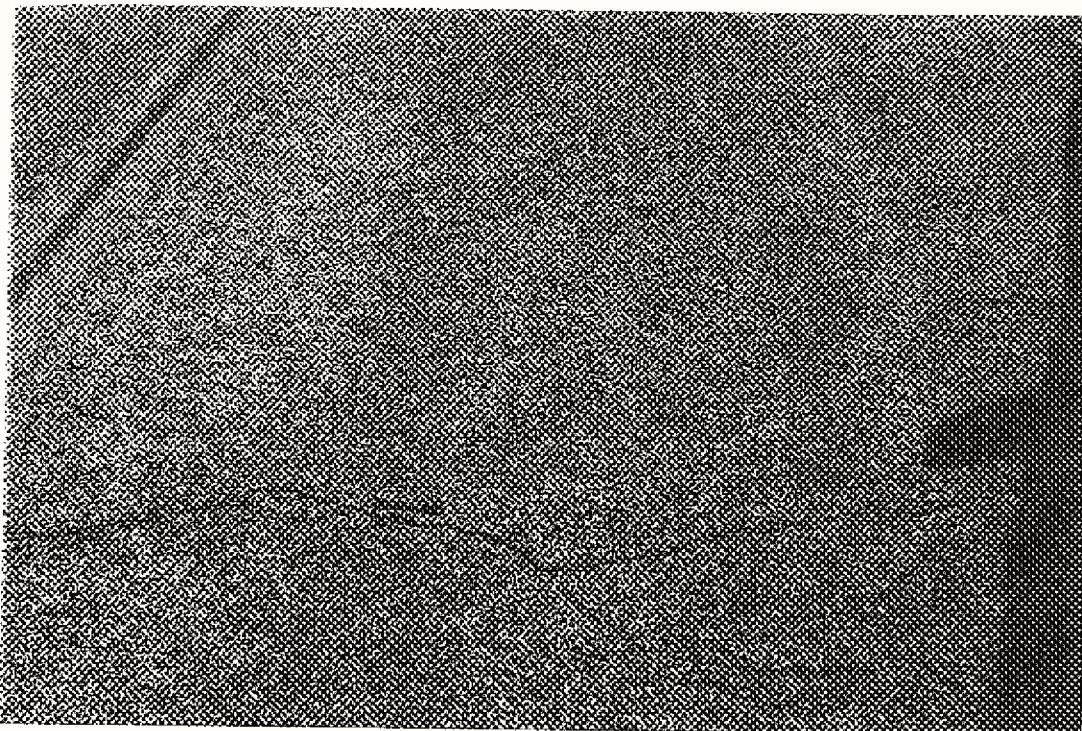


Photo #1-06 MP 4.4 Transverse cracking

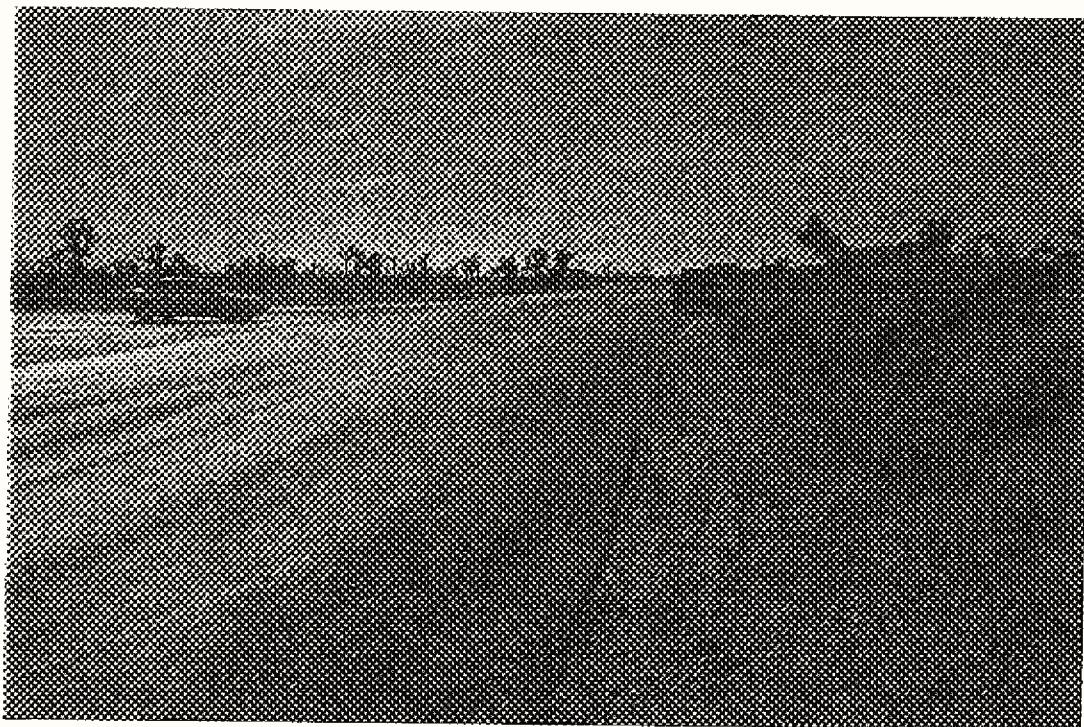


Photo #1-07 MP 4.6 Intersection with Cottonwood Road, left

PHOTOGRAPHIC SHEET

PARK NUMBER: 8330
ROUTE NUMBER: 012
DATE: 11/98

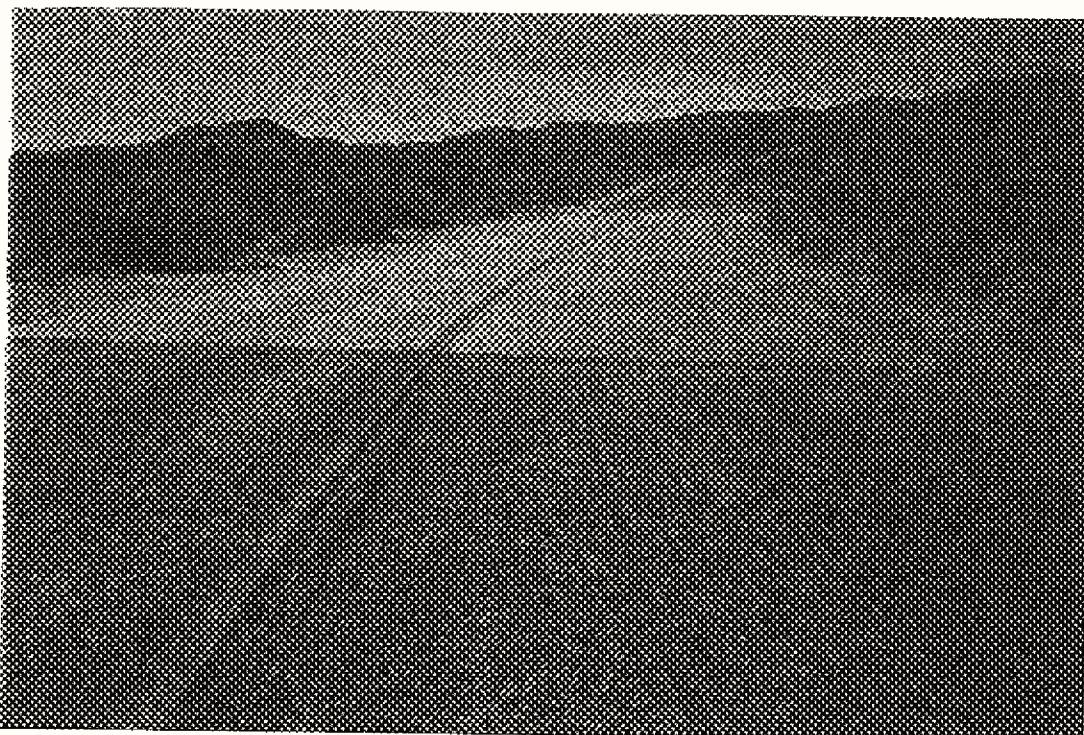


Photo #1-08 MP 4.7 Typical pavement section



Photo #1-11 MP 9.5 Typical pavement section

PHOTOGRAPHIC SHEET

PARK NUMBER: 8330

ROUTE NUMBER: 012

DATE: 11/98



Photo #1-12 MP 10.4 Typical pavement section, block cracking

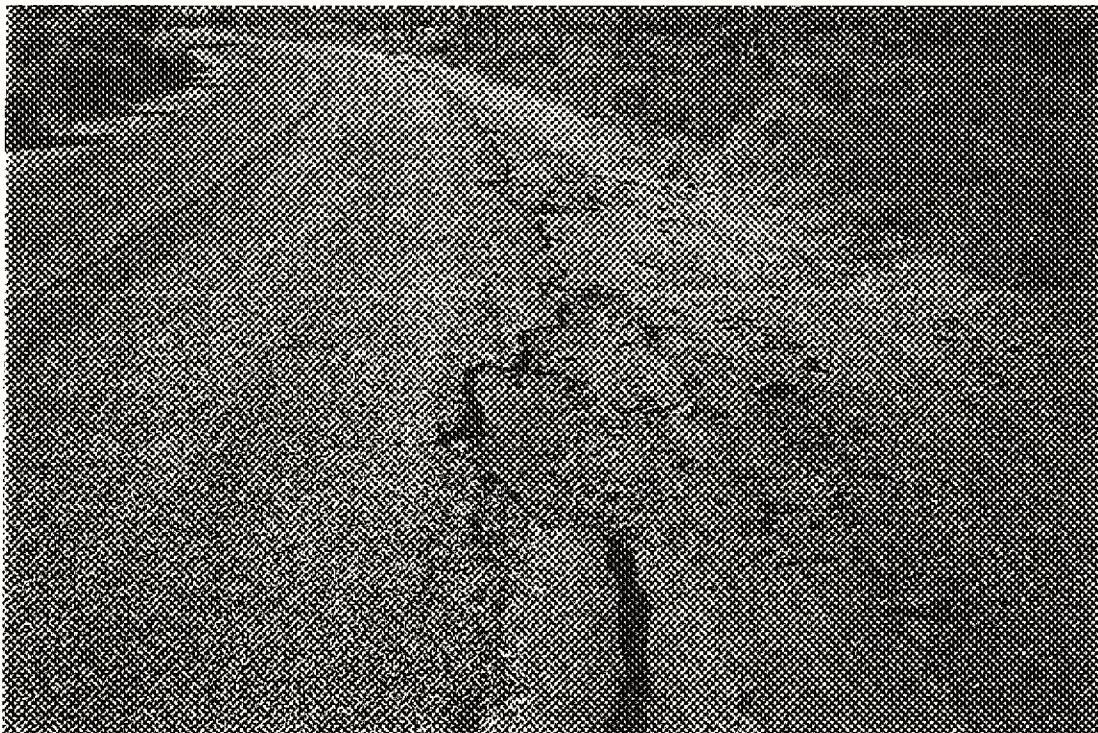


Photo #1-13 MP 12.2 Edge cracking, typical pavement section

PHOTOGRAPHIC SHEET

PARK NUMBER: 8330

ROUTE NUMBER: 012

DATE: 11/98



Photo #1-16 MP 16.0 Typical pavement section

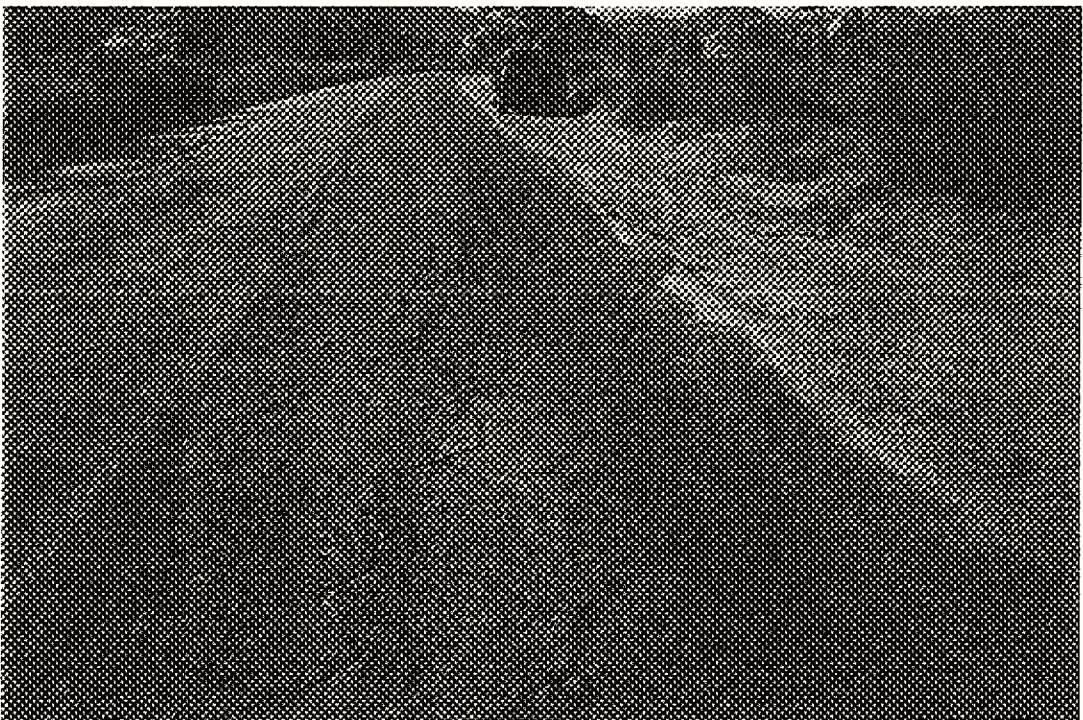


Photo # 1-19 MP 18.0 Typical pavement section

PHOTOGRAPHIC SHEET

PARK NUMBER: 8330

ROUTE NUMBER: 012

DATE: 11/98

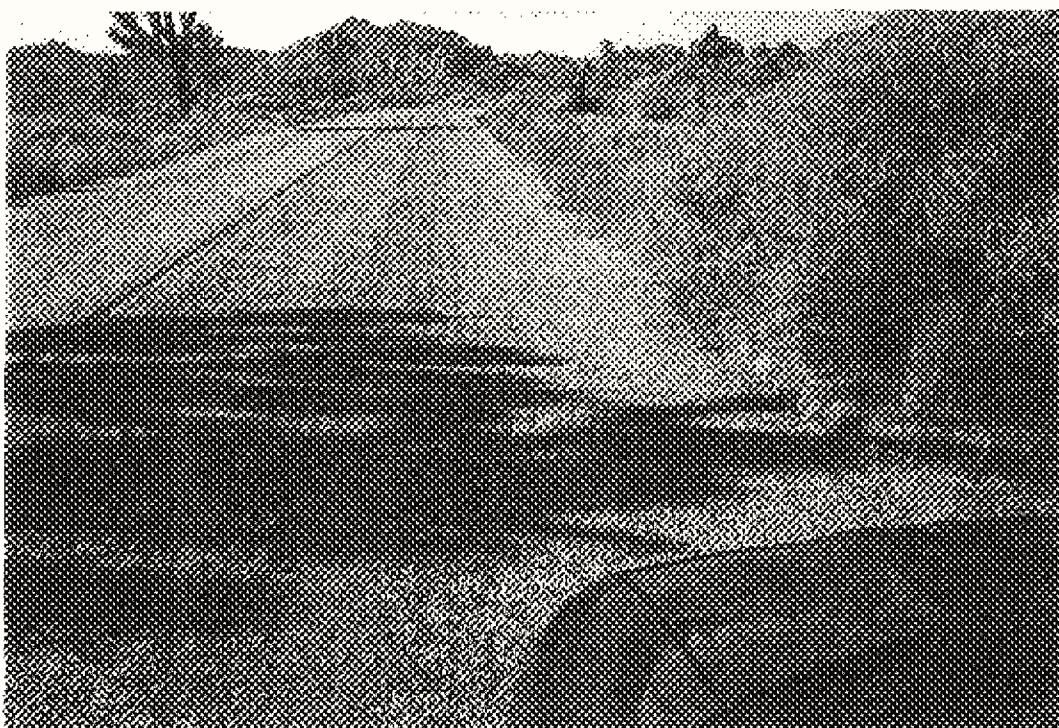


Photo #1-20 MP 21.4 Typical pavement section

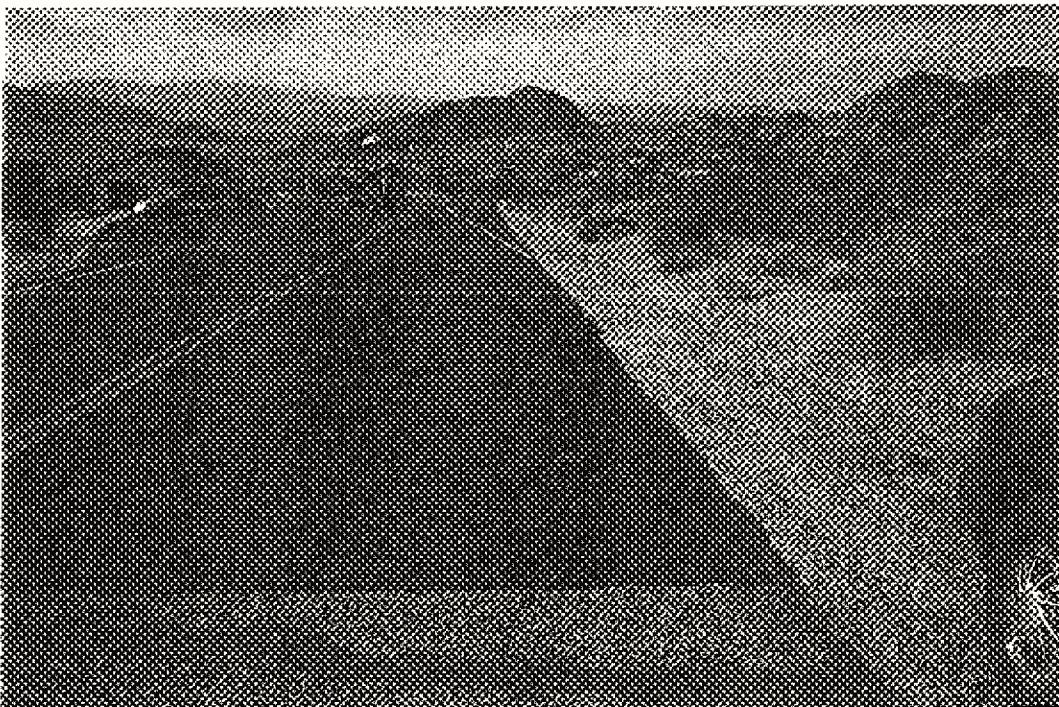


Photo #1-22 MP 25.5 West entrance

PHOTOGRAPHIC SHEET

PARK NUMBER: 8330

ROUTE NUMBER: 013

DATE: 11/98

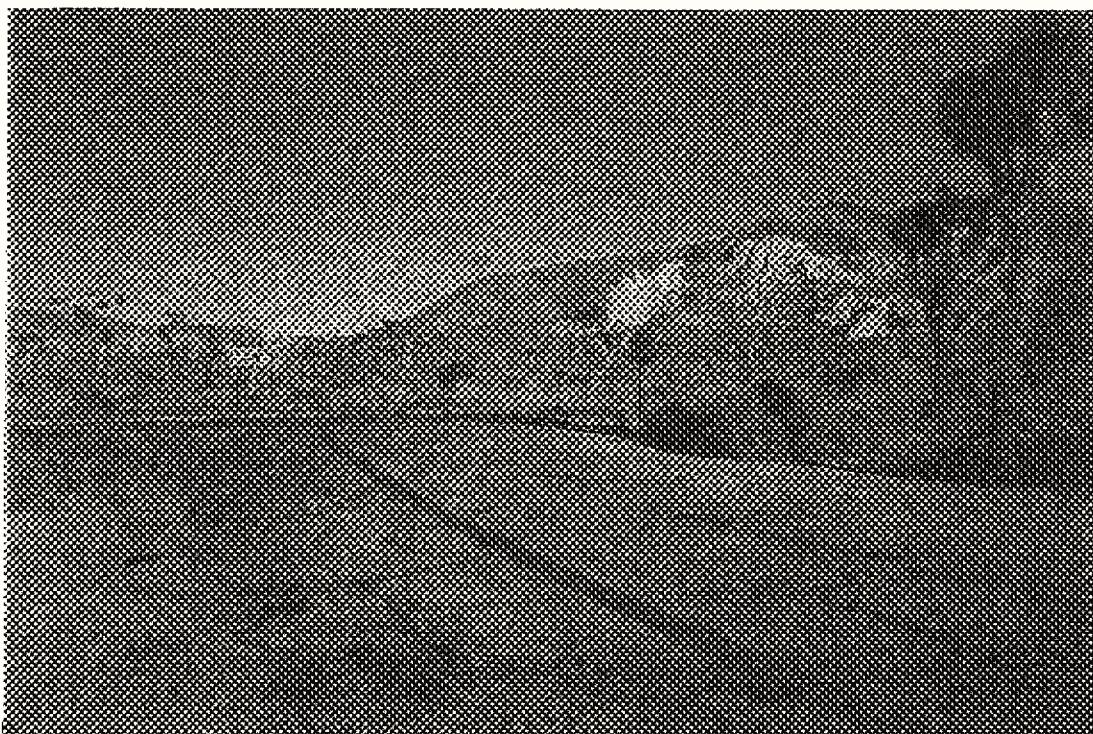


Photo #2-01 MP 0.0 Typical pavement section

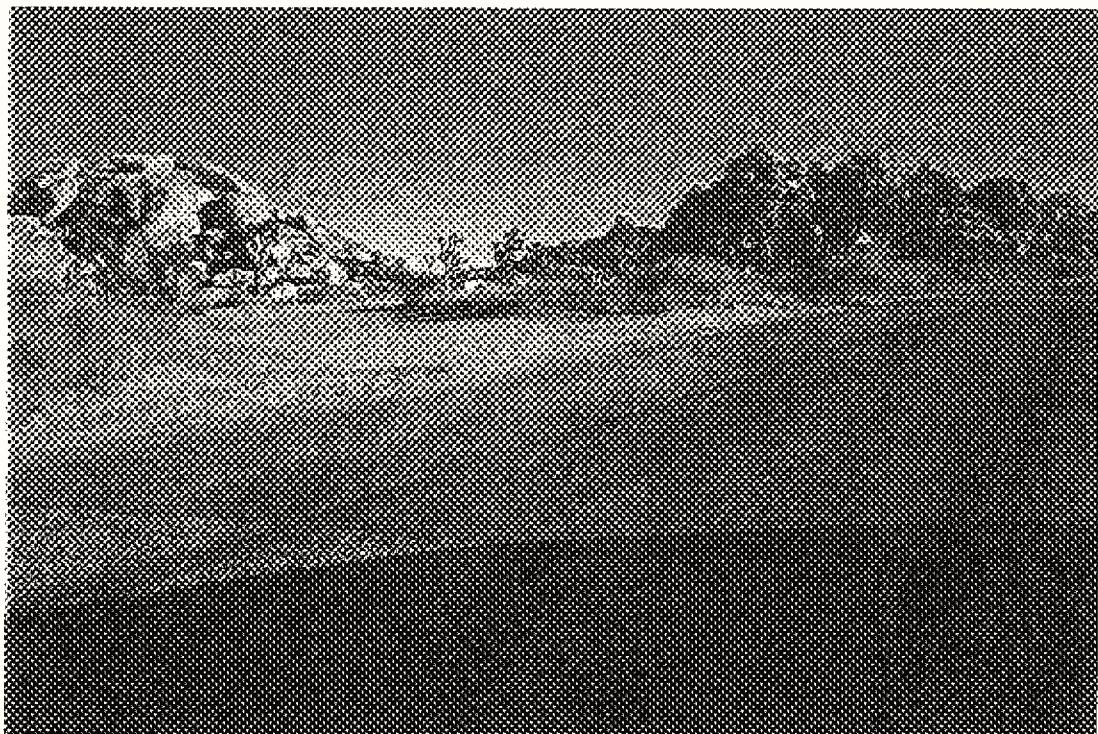


Photo #2-02 MP 0.2 Entrance to Cap Rock Campground

PHOTOGRAPHIC SHEET

PARK NUMBER: 8330

ROUTE NUMBER: 013

DATE: 11/98

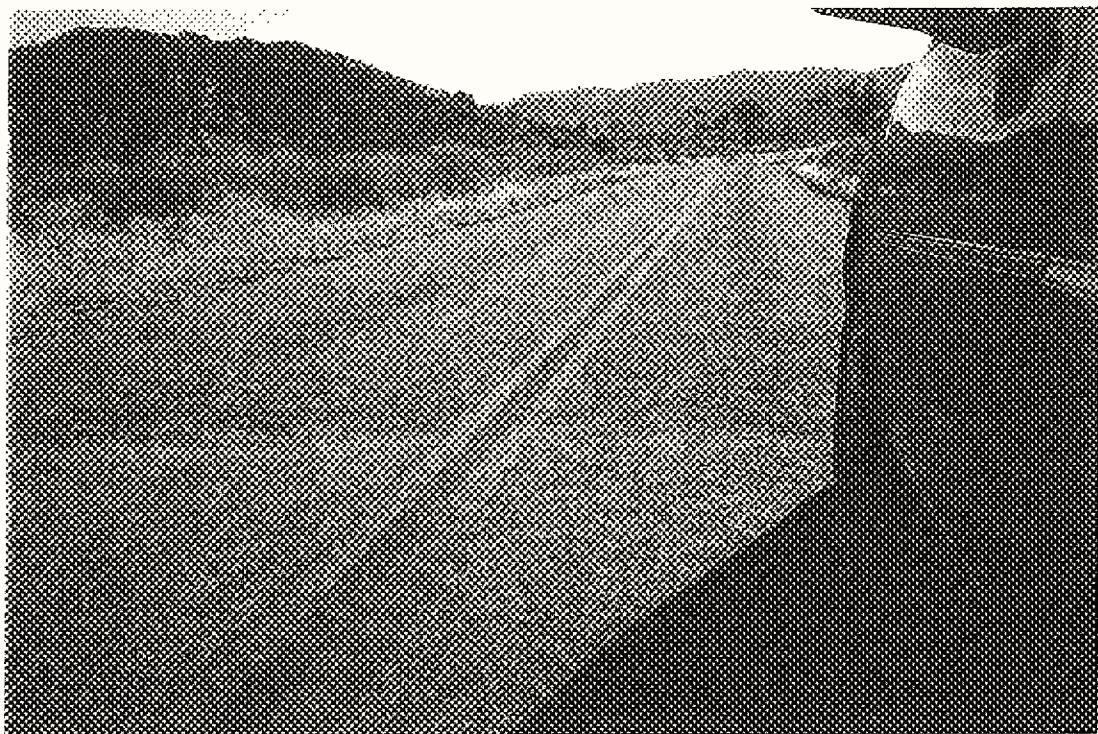


Photo #2-03 MP 1.8 Change in pavement



Photo #2-04 MP 3.0 Typical pavement section

PHOTOGRAPHIC SHEET

PARK NUMBER: 8330

ROUTE NUMBER: 013

DATE: 11/98

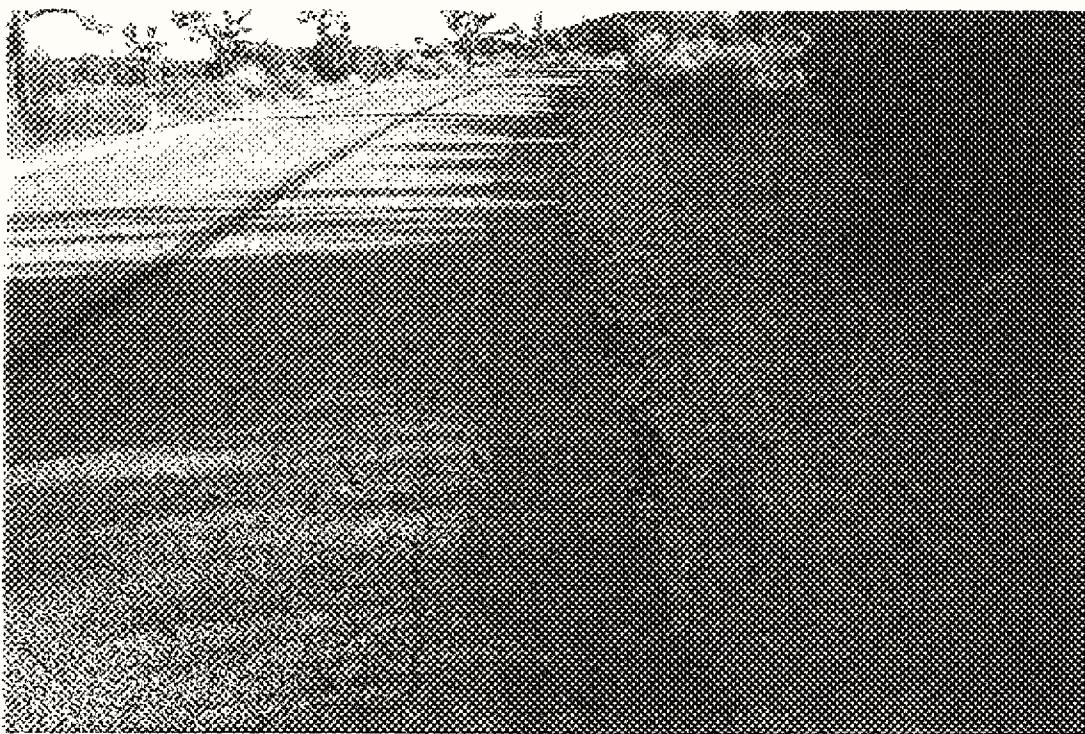


Photo #2-06 MP 4.0 Edge cracking, typical pavement section

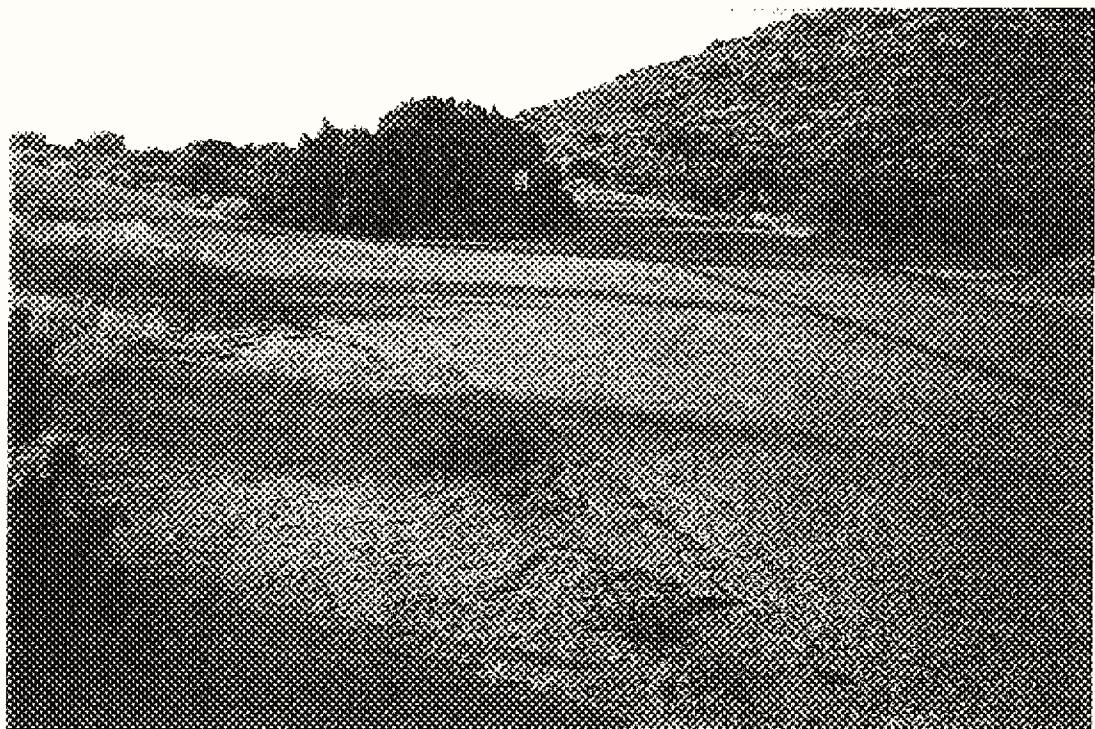


Photo #2-09 MP 5.4 Beginning of one-way loop.

PHOTOGRAPHIC SHEET

PARK NUMBER: 8330

ROUTE NUMBER: 200

DATE: 11/98



Photo # 2-12 MP 0.0 Typical pavement section

PHOTOGRAPHIC SHEET

PARK NUMBER: 8330

ROUTE NUMBER: 205

DATE: 11/98

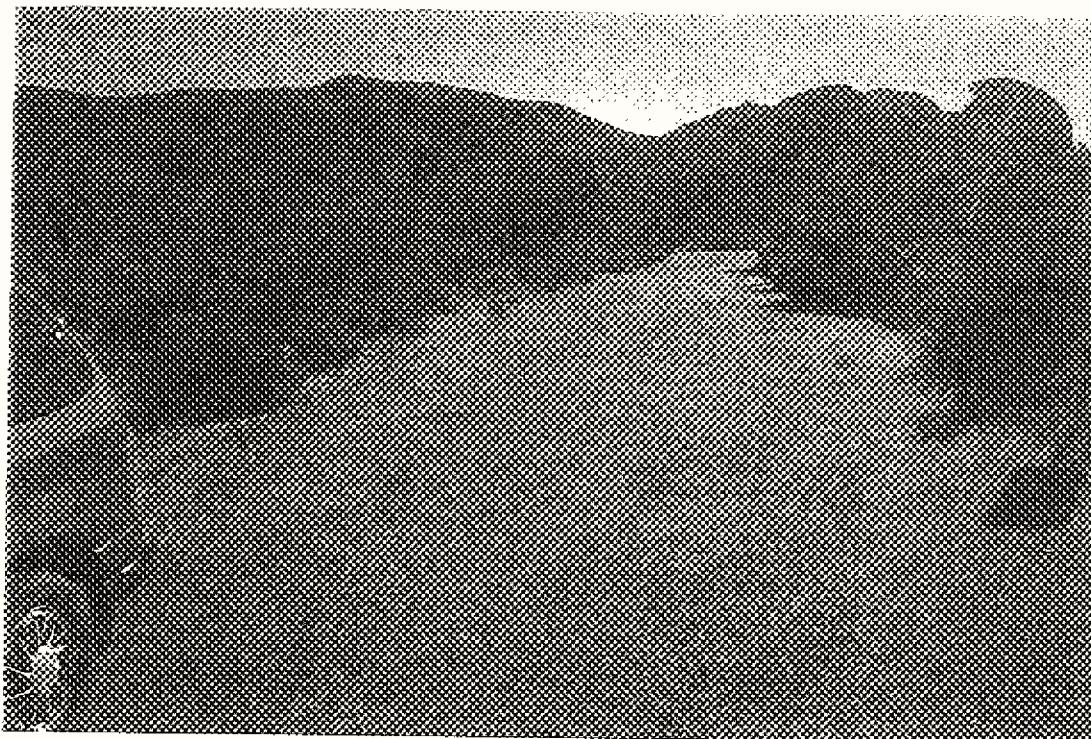


Photo #3-02 MP 0.0 Typical pavement section

PHOTOGRAPHIC SHEET

PARK NUMBER: 8330

ROUTE NUMBER: 206

DATE: 11/98

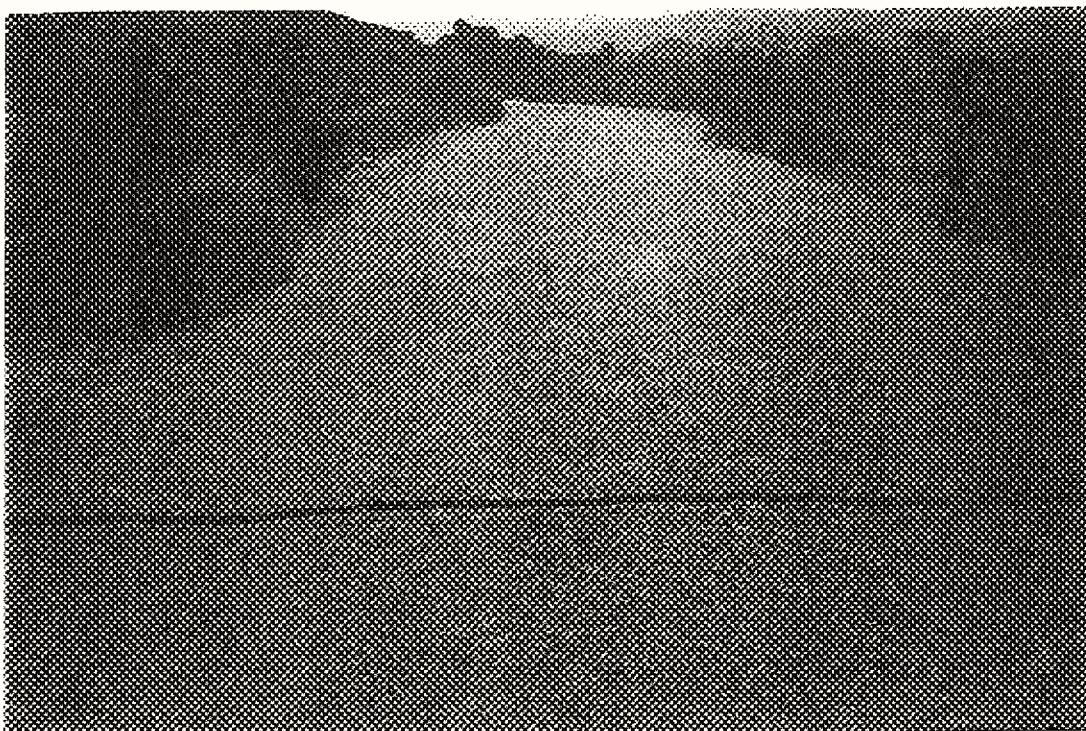


Photo # 3-03 Typical pavement section

PHOTOGRAPHIC SHEET

PARK NUMBER: 8330

ROUTE NUMBER: 208

DATE: 11/98

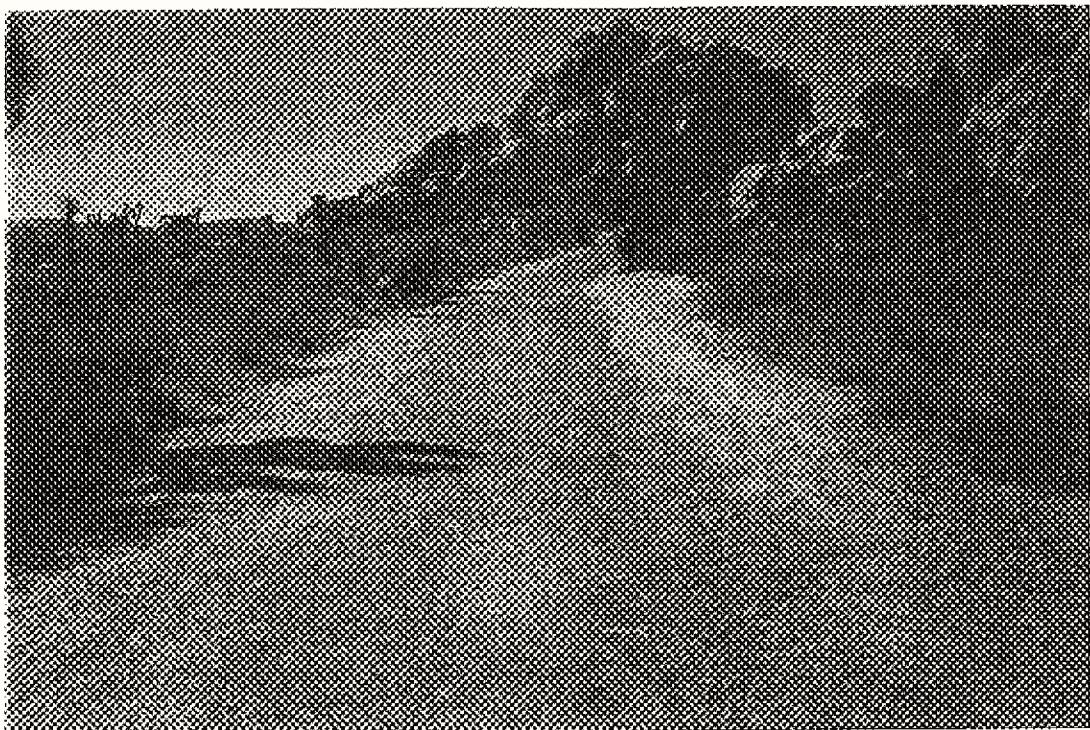


Photo #2-15 MP 0.0 Typical pavement section

PHOTOGRAPHIC SHEET

PARK NUMBER: 8330
ROUTE NUMBER: 209
DATE: 11/98



Photo #2-14 MP 0.0 Typical pavement section

PHOTOGRAPHIC SHEET

PARK NUMBER: 8330

ROUTE NUMBER: 211

DATE: 11/98

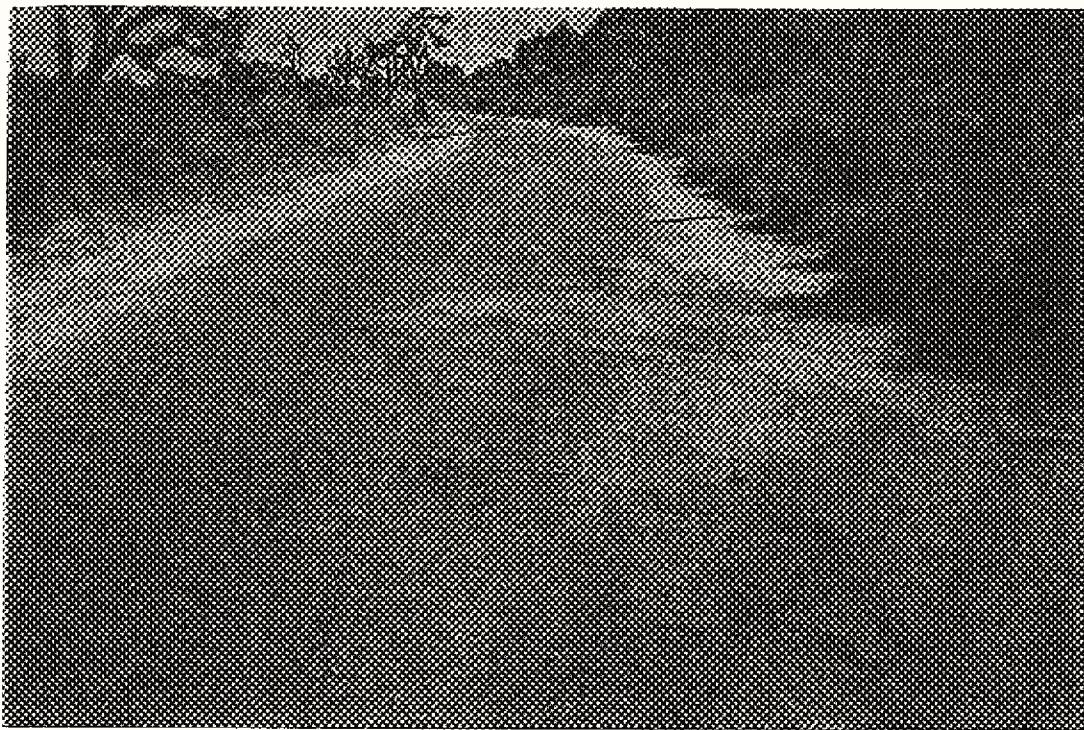


Photo # 2-13 MP 0.0 Typical pavement section

PHOTOGRAPHIC SHEET

PARK NUMBER: 8330
ROUTE NUMBER: 212
DATE: 11/98

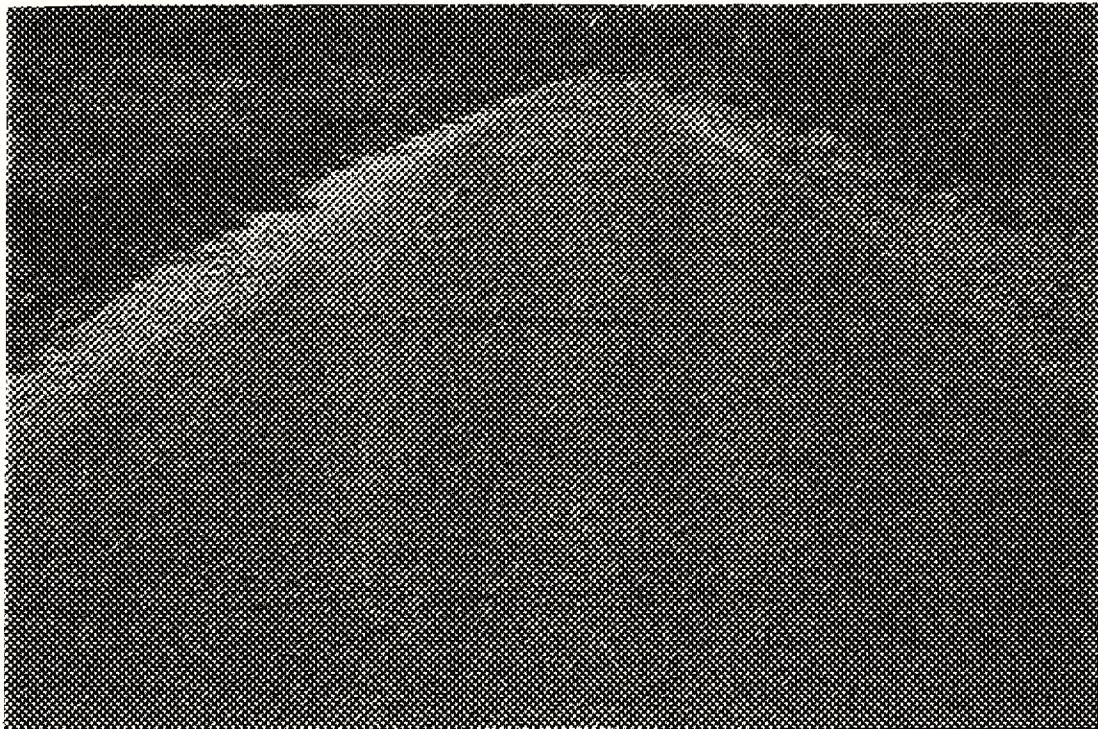


Photo #2-18 MP 0.3 Typical pavement section

PHOTOGRAPHIC SHEET

PARK NUMBER: 8330
ROUTE NUMBER: 213
DATE: 11/98

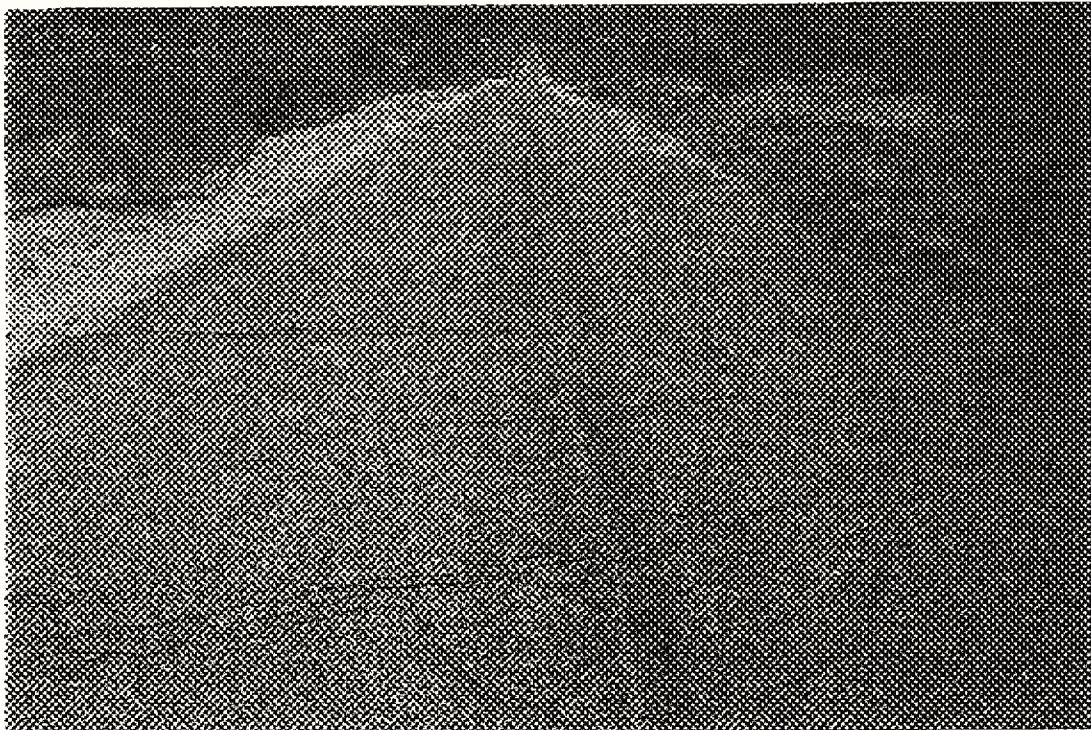


Photo #2-19 MP 0.0 Typical pavement section

PHOTOGRAPHIC SHEET

PARK NUMBER: 8330
ROUTE NUMBER: 400
DATE: 11/98

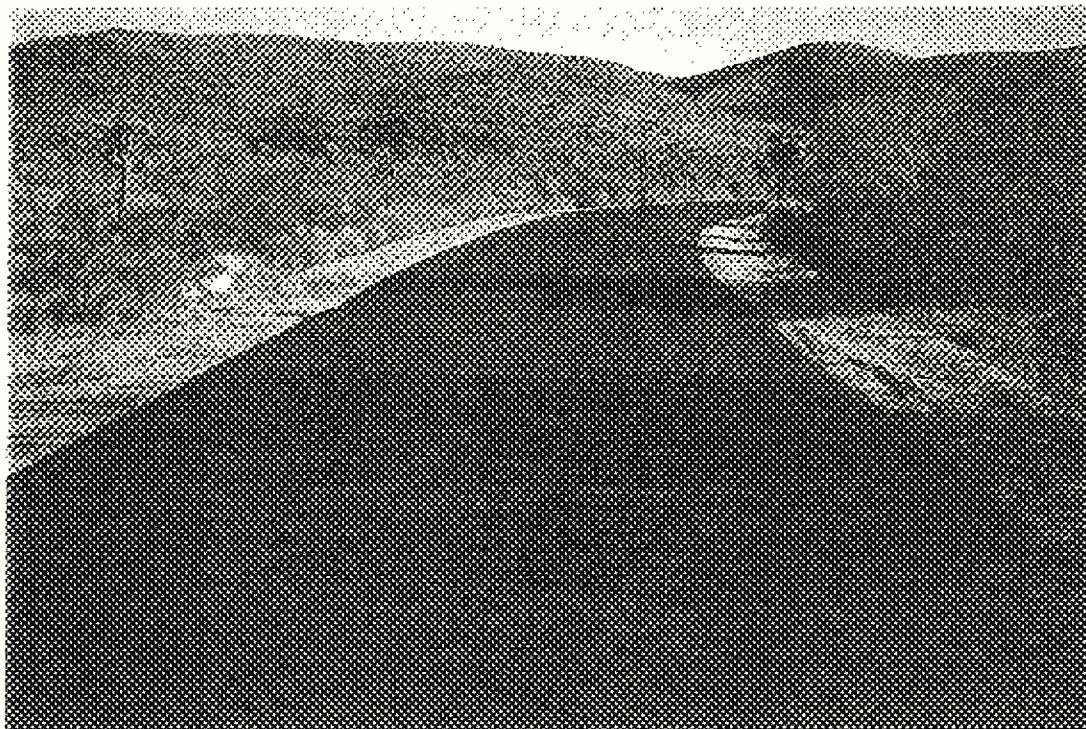


Photo # 3-01 MP 0.0 Typical pavement section

UNPAVED ROUTES

Unpaved routes are not addressed in this report at this time.

SECTION IV. ROUTE INVENTORY includes a current register of all unpaved routes (name, number, estimated mileage to the nearest 0.01, functional class, number of lanes, and termini description). Any further information will be added post 1997-99 data collection. Data was collected for unpaved routes in numerous parks during the '94-'96 data collection cycle. This data (digital images, GPS traces, features inventory, and condition assessments) may be processed in the future.

JOTR - 8330 - R.O.W. VIDEO TAPE INDEX

PAVED ROUTE NO.	MILEAGE AT BEGINNING FRAME	FROM	TO	BEG. FRAME NO.	END FRAME NO.	VIDEO TAPE NO.	DATE	DIR: PRIM/ OPP
011	0.00	RTE 012	S ENT	3179	99886	3	981118	P
011	35.56	S ENT	RTE 012	113896	203413	3	981118	O
204	0.00	RTE 011	RTE 914	102513	106062	3	981118	P
204	1.10	RTE 914	RTE 011	108139	111949	3	981118	O
205	0.00	RTE 011	END	5721	6227	4	981118	P
012	0.00	N ENT	W ENT	1154	72420	1	981118	P
012	25.44	W ENT	N ENT	80558	157593	1	981118	O
013	0.00	RTE 012	END	159995	177679	1	981118	P
013	5.44	END	RTE 012	180410		1	981118	O
211	0.00	RTE 012	END	32580	33702	4	981118	P
206	0.00	RTE 011	END	2272	2730	4	981118	P
208	0.00	RTE 012	END	35806	37223	4	981118	P
209	0.00	RTE 012	END	41595	44228	4	981118	P
213	0.00	N BNDRY	RTE 906	76073	81255	4	981118	P
213	1.26	RTE 906	N BNDRY	86841	91582	4	981118	O
212	0.00	N BNDRY	N BNDRY	46314	74369	4	981118	P
400	0.00	RTE 011	RTE 908	10588	12602	4	981118	P
400	0.48	RTE 908	RTE 011	15595	17482	4	981118	O
200	0.00	RTE 012	RTE 904	19915	22147	4	981118	P
203	0.00	RTE 012	END	24856	28126	4	981118	P

**GLOSSARY OF TERMS
AND
ABBREVIATIONS**

<u>TERM OR ABBREVIATION</u>	<u>DESCRIPTION OR DEFINITION</u>
8330	Joshua Tree National Park numeric code.
AADT	Annually adjusted average daily traffic. Average daily traffic for the term period comprising 80% of annual visitation.
JOTR	Joshua Tree National Park alpha code.
CRS	Condition Rating Sheet. Index rating for pavement distresses, roadway condition and cross section information.
DCR	Drainage Condition Rating
DIRI	Driver International Roughness Index
Drainage Condition Rating	Drainage condition rating. A numerical rating from 0 (failed) to 100 (excellent) based on visual observations.
EXCELLENT	Excellent rating.
F_C	Functional Class. See Table 1 in appendix.
FAIR	Fair rating.
GOOD	Good rating.
IRI	International Roughness Index
Lane	The portion of roadway from centerline to fog line or edge of pavement if no fog line exists.
LRUT	Left Rut.
NA	Not applicable.
PAV_MI	Paved portion of route, length in miles.
Pavement Width	The entire portion of roadway from edge of pavement to edge of pavement.
PCR	Pavement condition rating. Numerical rating form 0 (failed) to 100 (excellent). Based on the surface condition and the roughness of the road.
PIRI	Passenger International Roughness Index.

**GLOSSARY OF TERMS
AND
ABBREVIATIONS**

<u>TERM OR ABBREVIATION</u>	<u>DESCRIPTION OR DEFINITION</u>
POOR	Poor rating.
RI	Roughness Index.
RT#	Route number.
RTE_DESCRIPTION	Description of the route terminus.
RTE_MI	Total route length in miles.
RTE_NAME	Route name.
RRUT	Right Rut.
SADT	Seasonal Annual Daily Traffic. Average daily traffic for the total "season".
SCR	Surface Condition Rating. Numerical rating from 0 (failed)to 100 (excellent). Based on the extent of alligator cracking, patching, longitudinal cracking, rutting and transverse cracking.
Shoulder Condition Rating	Numerical rating from 0 (failed) to 100 (excellent). Visual and measured observations of the adequacy of a section of shoulder. Also applies to curb and gutter.
Shoulder Width	If fog line exists, the portion of pavement outside lane, from fog line to edge of pavement.
SF	Square Feet.
UNPAV_MI	Unpaved portion of route, length in miles.

GENERAL PARK ROAD FUNCTIONAL CLASSIFICATION - TABLE 1

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

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

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

DESCRIPTION OF RATING SYSTEM

Data is collected on the following distresses and conditions:

- **Alligator Cracking** - a series of interconnecting cracks resembling alligator skin or chicken wire which usually occur in the wheel path.
- **Longitudinal Cracking** - cracks which are parallel to the pavement centerline or asphalt lay down direction.
- **Transverse Cracking** - cracks perpendicular to the pavement centerline.
- **Pothole (patch)** - a bowl-shaped hole in the pavement surface.
- **Rutting** - surface depressions in the wheel paths.

In addition, **Roughness** has been collected and is used in the PCR formula.

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

Rating Index Formulas

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

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

Transverse Cracking Index = $100 - [40 * (\%low/4 + \%medium/2 + \%high/0.5)]$

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

Rutting Index: Asphalt Surface = $[13.33 * (\text{deepest rut})^2] - [86.67 * \text{deepest rut}] + 100$

Chipseal (1-5 yrs. old) = $[9.53 * (\text{deepest rut})^2] - [86.67 * \text{deepest rut}] + 108.57$

Chipseal (>5 yrs. old) = $[3.85 * (\text{deepest rut})^2] - [83.46 * \text{deepest rut}] + 116.53$

Roughness Index (RI) = $29 * [5 * e^{(-0.0041 * \text{average IRD})}]$

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

Surface Condition Rating (SCR) = $100 - [40 * (\%low ALLIGATOR CRACKING/70 + \%medium ALLIGATOR CRACKING/30 + \%high ALLIGATOR CRACKING/10 + \%patching/80 + \%low TRANSVERSE CRACKING/4 + \%medium TRANSVERSE CRACKING/2 + \%high TRANSVERSE CRACKING/0.5 + \%low LONGITUDINAL CRACKING/350 + \%medium LONGITUDINAL CRACKING/200 + \%high LONGITUDINAL CRACKING/75 + MAXIMUM RUT VALUE)]$

Pavement Condition Rating (PCR) = $(\text{SCR} * 0.60) + (\text{RI} * 0.40)$

NOTE: Collection of roughness data is dependant on the data collection vehicle traveling at a minimum speed of 22 mph. In the event that a route cannot be safely traveled at this minimum speed, and results in no roughness data, the SCR only will be calculated.

Drainage Condition Rating Definitions

- Excellent:** No drainability problem. If funding were available for pavement maintenance, no funds would be required for drainage concerns.
- Good:** Minimal overall drainability problems. If funding were available for pavement maintenance, 25% or less is estimated to correct drainage deficiencies.
- Fair:** Moderate problems with drainability that needs correcting before it deteriorates to a poor rating. If funding were available for pavement maintenance in this section, 25% to 50% is estimated to correct deficiencies.
- Poor:** Severe problems exist that jeopardizes the integrity of the road in this section. If funding were available for pavement maintenance, 50% to 100% is estimated to correct drainage deficiencies.

Drainage Rating Criteria

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

A. Excellent Drainability

- All water clears the road prism adequately without any chance of base saturation.
- Pavement drains without interruption. Curbs are flawless with the exception of minor cracking. Down drains are secure and placed properly.
 - Drop inlets are at the correct grade and location with no deficiencies.
 - Culverts are adequate in numbers, size, and condition.
 - Ditches are constructed of asphalt and are sufficient to carry required volumes of water.

B. Good Drainability

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

C. Fair Drainability

Some areas have questionable ability for the water to clear the road prism with an uncomfortable concern for base saturation.

- Pavement shows moderate flaws, such as rutting, and other irregularities that would hold minor amounts of water, interrupting the flow of water.
- Shoulder grades restrict the flow of water, however, water exits after some ponding.
- Down drains show evidence that limited water is causing erosion as a result of deterioration, or other similar flaws (e.g. missing asphalt that guides water to down drain).
- Drop inlet encasements are cracked, iron is bent, or are misaligned to cause limited water to escape,
- Culvert headwalls show moderate damage or are inadequate, the exit shows some damage to fill areas, or entry asphalt is moderately damaged.
- Ditches have some permeable material, unmovable obstructions to interrupt flow obviously hard to maintain due to inconsistencies, or have a less than desirable area to carry required volumes of water.

D. Poor Drainability

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

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

Shoulder Condition Rating Definitions

- Excellent:** Shoulder is new or under construction. It meets or exceeds standards. The curb is new.
- Good:** The shoulder is below standard width for posted speed and grading is required. The curb is functional.
- Fair:** There are variations in the shoulder, irregular width with material replacement required. The curb is in need of repairs or adjustments.
- Poor:** There isn't any shoulder, erosion has removed it. The curb needs replacement.

Shoulder Rating Criteria

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

The overall shoulder condition rating for a section is determined by the lowest individual rating for any one of the above categories (width, rutting, cracking, erosion, drop-off, and curbs).

A. Excellent Shoulders

- If shoulder is unpaved there will not be any drop-offs or erosion.
- If shoulder is paved there isn't any rutting, cracking, or erosion.
- Curbs are flawless with the exception of minor cracking and no erosion behind curb.

B. Good Shoulders

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

C. Fair Shoulder

- If shoulder is unpaved drop-offs are from 1" to 4" and replacement of material required.
- If shoulder is paved rut depth is from $\frac{1}{2}$ " to 1". Open cracks are present but less than 1/4" deep, replacement of material is needed from erosion.
- If curbs are present they need repairs, and there is erosion behind the curb.

D. Poor Shoulder

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