The Road Inventory of Cibola National Wildlife Refuge

Cibola, Arizona

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Federal Highway Administration
Central Federal Lands Highway Division
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INTRODUCTION

The Transportation Equity Act for the 21st Century (Public Law 105-178) created the Refuge Roads Program. Refuge roads are those public roads that provide access to or within a unit of the National Wildlife Refuge System and for which title and maintenance responsibility is vested in the United States Government. Funds from the Highway Trust Fund are available for refuge roads and can be used by the station to pay the cost of:

(a) Maintenance and improvements of refuge roads.
(b) Maintenance and improvements of:
    (1) Adjacent vehicle parking areas
    (2) Provision for pedestrians and bicycles and
    (3) Construction and reconstruction of roadside rest areas that are located in or adjacent to wildlife refuges
(c) Administrative costs associated with such maintenance and improvements.

The funds available for refuge roads are to be disbursed based on the relative needs of the various refuges in the National Wildlife Refuge System, and taking into consideration:

(a) The comprehensive conservation plan for each refuge;
(b) The need for access as identified through land use planning; and
(c) The impact of land use planning on existing transportation facilities.

To determine the relative needs of the U.S. Fish and Wildlife Service, the Federal Highway Administration (FHWA) was asked to inventory all public access roads and parking lots and provide a condition assessment of each. In 2008 the inventory was expanded to include administrative (service use only) roads and parking lots. An FHWA representative meets with refuge personnel to identify route segments and assign route numbers and functional classifications (See Appendix) for each route. All roads and parking lots are mapped using Trimble GPS units and visually assessed for condition using the RSL method of evaluation developed at Utah State University (See Appendix). Culverts, Gates, Guardrails and Low Water Crossings are also mapped and inspected for any obvious defects.

An estimate is provided, in year 2008 dollars, based on the condition determined by the rating system. Estimates are based upon data and location factors from the 2008 RS Means Heavy Construction Cost Data 22nd Annual Edition. Cost estimates should be evaluated on a case-by-case basis when being used for programming purposes.

Native Surfaced roads and parking lots already inventoried will not be re-inventoried and will not appear individually in report chapters 5, 6 and 8. Mileages and areas of native surfaced roads and parking lots will still appear in all summaries in the report and will remain in the road inventory database. In addition to this report, the FHWA will furnish the condition ratings of each route and segment to the Fish and Wildlife Service in a Microsoft Access database so the data can be included in their Real Property Inventory.

Cibola

Summaries

Route Miles and Percentages by Functional Class and Condition

	Condition Rating (Based on RSL)*										
	Excellent		Good		Fair		Poor		Failed		TOTAL
F. C.	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	MILES
I	0.05	1.4%	3.16	92.2%	0.11	3.2%	0.11	3.2%			3.43
II	3.46	17.0%	11.03	54.1%	2.78	13.6%	3.11	15.2%			20.37
III											
IV											
V	4.46	15.5%	5.82	20.3%	5.99	20.9%	12.44	43.3%			28.71
Totals	**7.97**	**15.2%**	**20.01**	**38%**	**8.88**	**16.9%**	**15.65**	**29.8%**			**52.51**

*For a description of condition ratings for the various surface types see the Appendix.

Route Miles and Percentages by Surface Type and Condition

	Paved Condition Rating [Condition(RSL)]										
	Excellent (19-20)		Good (13-18)		Fair (7-12)		Poor (1-6)		Failed (0)		TOTAL
S. T.	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	MILES
AS					0.11	49.8%	0.11	50.2%			0.22
CO											
Totals					**0.11**	**49.8%**	**0.11**	**50.2%**			**0.22**

	Unpaved Condition Rating [Condition(RSL)]										
	Excellent (8-10)		Good (5-7)		Fair (3-4)		Poor (1-2)		Failed (0)		TOTAL
S. T.	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	MILES
GR	7.97	29.3%	17.22	63.4%			1.98	7.3%			27.17
NA			2.79	11.1%	8.77	34.9%	13.57	54.0%			25.12
PR											
Totals	**7.97**	**15.2%**	**20.01**	**38.3%**	**8.77**	**16.8%**	**15.54**	**29.7%**			**52.29**

Square Footage (Parking Areas)

	Condition Rating										
	Excellent		Good		Fair		Poor		Failed		Total
	Square		Square		Square		Square		Square		Square
S. T.	Feet	%	Feet	%	Feet	%	Feet	%	Feet	%	Feet
AS					1225	100%					1225
CO											
GR	45921	33.0%	21960	15.8%	64619	46.4%	6852	4.9%			139352
NA					52455	42%	73637	58.4%			126092
PR											
Totals	**45921**	**17.2%**	**21960**	**8.2%**	**118299**	**44.4%**	**80489**	**30.2%**			**266669**

Cibola

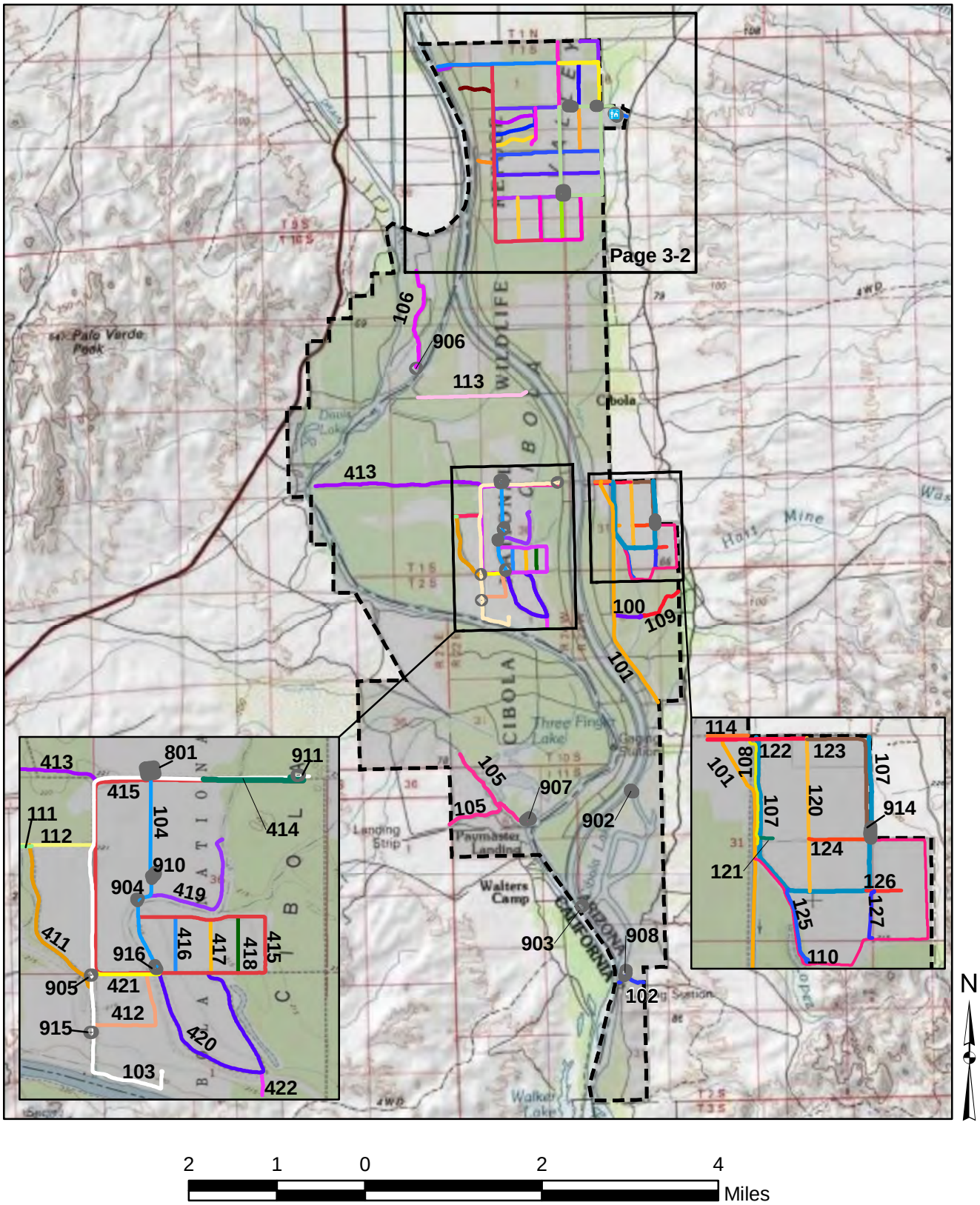
Summaries

Route Miles and Percentages by Use Type and Condition

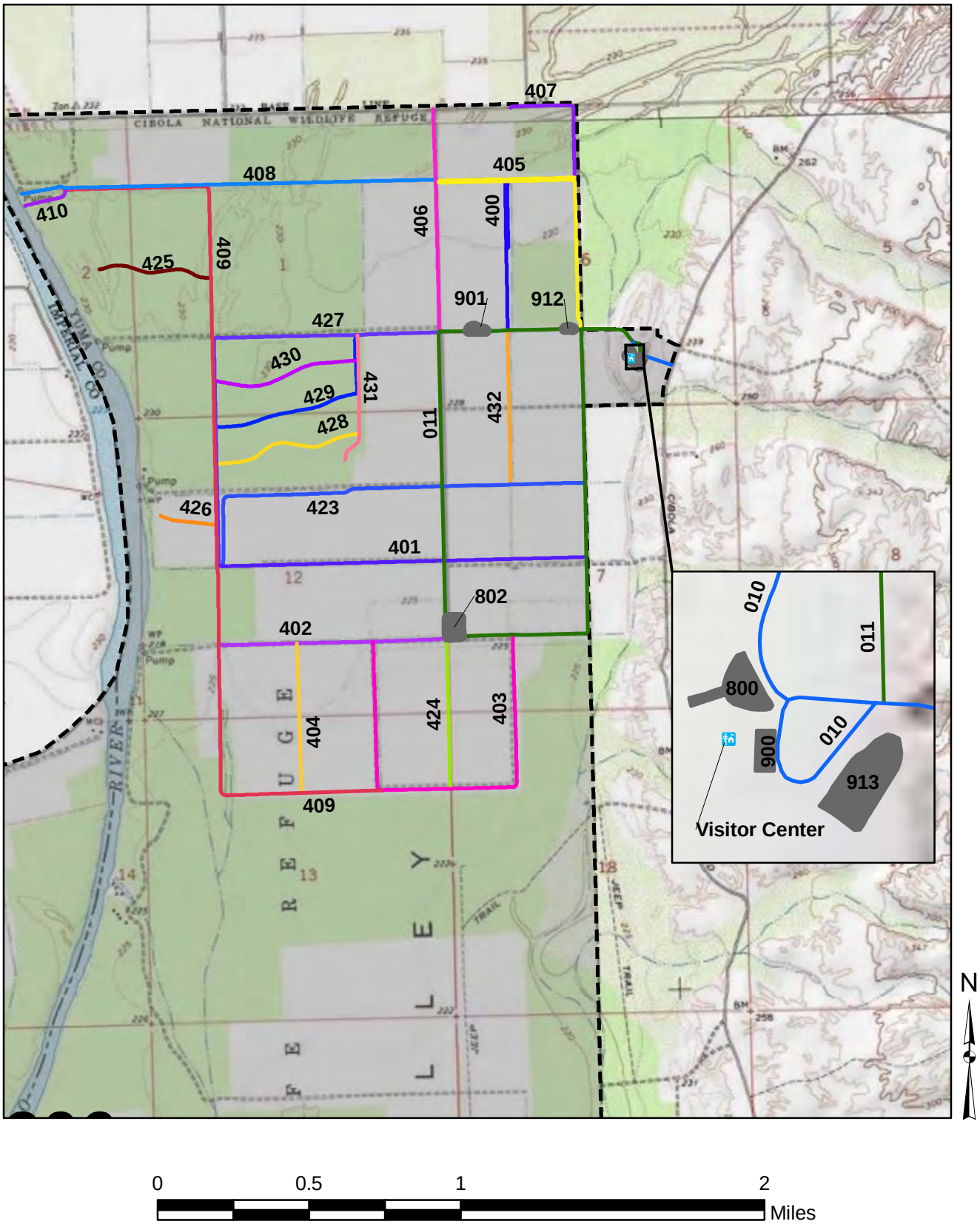
USE TYPE	Road Condition Rating: Public/Administrative Use										TOTAL MILES	PERCENT TOTAL MILES
	Excellent		Good		Fair		Poor		Failed			
	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%		
Public (FC I-III)	3.51	14.7%	14.19	60%	2.89	12.1%	3.22	13.5%			23.80	**45%**
Admin (FC IV-V)	4.46	15.5%	5.82	20.3%	5.99	20.9%	12.44	43.3%			28.71	**55%**
Totals	**7.97**	**15.2%**	**20.01**	**38%**	**8.88**	**16.9%**	**15.65**	**29.8%**			**52.51**	

USE TYPE	Parking Condition Rating										Total Square Feet	PERCENT TOTAL SF
	Excellent		Good		Fair		Poor		Failed			
	Square Feet	%	Square Feet	%	Square Feet	%	Square Feet	%	Square Feet	%		
Public			21960	15.3%	115136	80.0%	6852	4.8%			143948	**54%**
Admin	45921	37.4%			3163	2.6%	73637	60.0%			122721	**46%**
Totals	**45921**	**17.2%**	**21960**	**8.2%**	**118299**	**44.4%**	**80489**	**30.2%**			**266669**	

CIBOLA NATIONAL WILDLIFE REFUGE ROUTE LOCATION MAP



CIBOLA NATIONAL WILDLIFE REFUGE
ROUTE LOCATION MAP 2



Cibola - 22540 - ROUTE IDENTIFICATION LIST (NUMERIC)

Shading Color Key:	White = Paved Routes
	Yellow = Unpaved Routes

RTE #	Asset Number	ROUTE NAME	RTE MI	ROUTE DESCRIPTION	PAVED MI	UN-PAVED MI	LANES	FC
010	10009664	Refuge Entrance Road	0.23	From Cibola Road to Auto Tour Loop Road (Route 011)	0.18	0.05	2	1
011	10009692	Auto Tour Loop Road	3.20	From Refuge Entrance Road (Route 010) to end of loop	0.04	3.16	2	1
100		West Hart Mine Marsh Road	0.35	From Arnett Ditch Road (Route 101) to boat ramp	-	0.35	2	2
101	10009720	Arnett Ditch Road	2.69	From Farm Unit 2 Access Road 1 (Route 114) to end of route	-	2.69	2	2
102		Cibola Lake Road	0.35	From Riverside Road to FWS boundary	-	0.35	1	2
103	10009693	Island Unit Public Access Road	2.83	From refuge boundary at Colorado River to end of loop	-	2.83	1	2
104	10009693	Island Unit Middle Road	1.05	From Island Unit Public Road (Route 103) to Island Unit Access Road 1 (Route 415)	-	1.05	1	2
105		Three Finger Lake Road	1.91	From Walters Camp Road and FWS boundary to Three Fingers Lake Parking (Route 907)	-	1.91	1	2
106	10009694	Pretty Water Road	1.22	From Marlow Road to Pretty Woman Parking (Route 906)	-	1.22	1	2
107	10009717	Farm Unit 2 Goose Hunt Road	1.86	From FWS boundary at Hart Mine Road (East) to FWS Boundary at Hart Mine Road (West)	-	1.86	2	2
108		Farm Unit 2 Access Road 2	0.53	From Fam Unit 2 North Dike Loop to end of route	-	0.53	1	2
109	10009716	East Hart Mine Marsh Road	0.57	From Cibola Road (East FWS boundary) to boat ramp	-	0.57	2	2
110		Farm Unit 2 Southeast Access Road	1.86	From Farm Unit 2 Goose Hunt Road (Route 107) to Arnett Ditch Road (Route 101)	-	1.86	1	2
111	10009693	Island Unit Boat Ramp Access Road 2	0.05	From Island Unit Access Road 4 (Route 411) to end of route at boat ramp	-	0.05	1	2
112	10009693	Island Unit Boat Ramp Access Road 1	0.32	From Island Unit Public Access Road (Route 103) to boat ramp	-	0.32	1	2
113		Fire Break Road	1.24	From refuge boundary at Colorado River to end of route	-	1.24	1	2
114	10009693	Farm Unit 2 Access Road 1	0.17	From start of route to end of route	-	0.17	2	2
120	10009717	Farm Unit 2 Central Access Road	0.75	From Hart Mine Road to Farm Unit 2 Goose Hunt Road	-	0.75	1	2
121	10009717	Farm Unit 2 Hunting Blind Access Road	0.05	From Farm Unit 2 Goose Hunt Road (Route 107) to end of route	-	0.05	2	2
122		Farm Unit 2 North Dike Loop	0.82	From Farm Unit 2 Central Access Road (Route 120) (North) to Farm Unit 2 Central Access Road (Route 120) (South)	-	0.82	2	2
123		Farm Unit 2 Access Road 3	0.72	From Farm Unit 2 Central Access Road (Route 120) to Farm Unit 2 Access Road 4	-	0.72	1	2
124	10009717	Farm Unit 2 Access Road 4	0.26	From Farm Unit 2 Goose Hunt Road (Route 107) to Farm Unit 2 Central Access Road (Route 120)	-	0.26	1	2
125		Farm Unit 2 Access Road 5	0.39	From Farm Unit 2 Goose Hunt Road (Route 107) to end of loop	-	0.39	1	2
126		Farm Unit 2 Access Road 6	0.15	From Farm Unit 2 Goose Hunt Road (Route 107) to end of route	-	0.15	1	2
127		Farm Unit 2 Access Road 7	0.25	From Farm Unit 2 Access Road 6 (Route 126) to end of route	-	0.25	1	2

Cibola - 22540 - ROUTE IDENTIFICATION LIST (NUMERIC)

Shading Color Key:	White = Paved Routes
	Yellow = Unpaved Routes

RTE #	Asset Number	ROUTE NAME	RTE MI	ROUTE DESCRIPTION	PAVED MI	UN-PAVED MI	LANES	FC
400		Long Pond Road	0.72	From Auto Tour Loop Road (Route 011) to Pump Unit #1 Road (Route 405)	-	0.72	1	5
401	10009718	Farm Unit 1 Access Road 1	1.22	From Auto Tour Loop Road (Route 011) to From Unit 1 West Access Road (Route 409)	-	1.22	1	5
402	10009718	Farm Unit 1 Access Road 2	0.76	From Farm Unit 1 West Access Road to Farm Unit 1 South Dike Access 1A	-	0.76	1	5
403		Farm Unit 1 South Dike Access Road 1	1.44	From Farm Unit 1 South Dike Access 1 (Route 403) to Farm Unit 1 Access Road 2 (Route 402)	-	1.44	1	5
404		Farm Unit 1 South Dike Access Road 2	0.49	From Farm Unit 1 South Dike Access 2 (Route 402) to Farm Unit 1 West Access Road (Route 409)	-	0.49	1	5
405		Pump Unit #1 Road	1.39	From Auto Tour Loop Road (Route 011) to Farm Unit 1 Northeast Access Road (Route 407)	-	1.39	1	5
406		Cottonwood Restoration Area Road	0.74	From Auto Tour Loop Road (Route 011) to refuge boundary at Base Line Road	-	0.74	2	5
407		Farm Unit 1 Northeast Access Road	0.45	From Pump Unit #1 Road (Route 405) to end of route	-	0.45	1	5
408	10009718	Farm Unit 1 North Access Road	1.37	From Cottonwood Restoration Area Road (Route 406) to refuge bounday at Levee Road	-	1.37	1	5
409	10009718	Farm Unit 1 West Access Road	3.00	From Refuge Boundary at Levee Road to Farm Unit 1 South Dike Access 1 (Route 403)	-	3.00	1	5
410	10009718	Farm Unit 1 West Access Spur 1	0.15	From Farm Unit 1 West Access Road (Route 409) to refuge boundary at Levee Road	-	0.15	1	5
411	10009693	Island Unit Access Road 4	0.83	From Island Unit Public Access Road (Route 103) to Island Unit Boat Ramp Access Road (Route 112)	-	0.83	1	5
412	10009693	Island Unit Access Road 5	0.53	From Island Unit Public Access Road (Route 103) to Island Unit Access Road 3 (Route 421)	-	0.53	1	5
413	10009720	Island Unit Fire Break Road	1.91	From Island Unit Public Access Road (Route 103) to end of route	-	1.91	1	5
414	10009720	Island Unit Access Road 1A	0.49	From Island Unit Public Access Road (Route 103) (East) to Island Unit Public Access Road (Route 103) (West)	-	0.49	1	5
415	10009720	Island Unit Access Road 1	3.41	From Island Unit Access Road 1A (Route 414) to Island Unit Middle Road (Route 104)	-	3.41	1	5
416	10009720	Island Unit Central Pond Access 1	0.29	From Island Unit Access Road 1 (Route 415) (Section 003) to Island Unit Access Road (Route 415) (Section 004)	-	0.29	1	5
417	10009720	Island Unit Central Pond Access 2	0.27	From Island Unit Access Road 1 (Route 415) (Section 003) to Island Unit Access Road (Route 415) (Section 004)	-	0.27	1	5
418	10009720	Island Unit Central Pond Access 3	0.29	From Island Unit Access Road 1 (Route 415) (Section 003) to Island Unit Access Road (Route 415) (Section 004)	-	0.29	1	5
419	10009720	Island Unit Access Road 2	0.68	From Island Unit Middle Road (Route 104) to end of route	-	0.68	1	5
420	10009720	Island Unit Southeast Access Loop	1.33	From Island Unit Access Road 3 (Route 421) to Island Unit Access Road 1 (Route 415)	-	1.33	1	5
421	10009720	Island Unit Access Road 3	0.28	From Island Unit Access Road 1 (Route 415) to end of route	-	0.28	1	5

Cibola - 22540 - ROUTE IDENTIFICATION LIST (NUMERIC)

Shading Color Key:	White = Paved Routes
	Yellow = Unpaved Routes

RTE #	Asset Number	ROUTE NAME	RTE MI	ROUTE DESCRIPTION	PAVED MI	UN-PAVED MI	LANES	FC
422	10009720	Island Unit Southeast Access Loop Spur	0.12	From Island Unit Southeast Access Loop (Route 420) to end of route	-	0.12	1	5
423		Farm Unit 1 Access Road 3	1.42	From Auto Tour Loop Road (Route 011) to Farm Unit 1 Access Road 1 (Route 401)	-	1.42	1	5
424		Farm Unit 1 South Dike Access 1A	0.49	From UInit 1 Access Road 2 (Route 402) to Farm Unit 1 South Dike Access Road 1 (Route 403)	-	0.49	1	5
425		Farm Unit 1 West Access Spur 2	0.38	From Farm Unit 1 West Access Road (Route 409) to end of route	-	0.38	1	5
426		Farm Unit 1 West Access Spur 3	0.19	From Farm Unit 1 West Access Road (Route 409) to end of route	-	0.19	1	5
427	10009718	Farm Unit 1 Access Road 4	1.49	From Farm Unit 1Access Road 1 (Route 401) to Auto Tour Loop Road (Route 011)	-	1.49	1	5
428		Farm Unit 1 Access Road 5	0.50	From Farm Unit 1Access Road 4 (Route 427) to Farm Unit 1 Access Road 8 (Route 431)	-	0.50	1	5
429		Farm Unit 1 Access Road 6	0.68	From Farm Unit 1 Access Road 4 (Route 401 Section 001) to Farm Unit 1 Access Road 4 (Route 401 Section 002)	-	0.68	1	5
430		Farm Unit 1 Access Road 7	0.48	From Farm Unit 1 Access Road 4 (Route 427) to Farm Unit 1 Access Road 6 (Route 429)	-	0.48	1	5
431		Farm Unit 1 Access Road 8	0.43	From Farm Unit 1 Access Road 4 (Route 427) to end of route	-	0.43	1	5
432		South Long Pond Road	0.51	From Auto Tour Loop Road (Route 011) to Farm Unit 1 Access Road 3 (Route 423)	-	0.51	1	5

Cibola - 22540 - ROUTE IDENTIFICATION LIST (PARKING)

Shading Color Key:	
	Green = Unpaved Parking Lots
	Blue = Paved Parking Lots

RTE #	ASSET NUMBER	ROUTE NAME	RTE SQFT	ROUTE DESCRIPTION	PAVED SQFT	UN-PAVED SQFT
800		Headquarters Employee Parking	3163		-	3163
801		Island Unit Administration Equipment Parking	45921		-	45921
802		Auto Tour Administrative Equipment Parking	73637		-	73637
900	10009719	Visitor Center Parking	1225		1225	-
901	10009690	Cornfield Nature Trail Parking	12881		-	12881
902	10009687	Cibola Lake North Parking Area	21824		-	21824
903	10009688	Cibola Lake South Parking Area	6852		-	6852
904		Middle Road Parking Area 2	2654		-	2654
905		Duck Hunter Parking Area	2503		-	2503
906		Pretty Water Parking Area	5206		-	5206
907		Three Fingers Lake Parking Area	35410		-	35410
908	10009689	Cibola Lake Overlook Parking Area	17045		-	17045
910		Middle Road North Parking Area	8749		-	8749
911		Kiosk Parking Area	2690		-	2690
912	10009692	Long Pond Overlook Parking	2232		-	2232
913		Visitor Center Parking	6550		-	6550
914		Farm Unit 2 Goose Check Station Parking	11754		-	11754
915		Island Unit Road Additional Parking	2628		-	2628
916		Middle Road Parking	3745		-	3745

CHANGES TO THE FISH AND WILDLIFE SERVICE ROAD INVENTORY REPORT
Cibola - 22540

Routes added to previous inventory: No routes added to previous inventory.

	Rte #	Rte Name		
1.			Rte Desc:	
			Reason for Addition:	
2.			Rte Desc:	
			Reason for Addition:	
3.			Rte Desc:	
			Reason for Addition:	

Routes removed from previous inventory: No routes removed from previous inventory.

	Rte #	Rte Name		
1.			Rte Desc:	
			Reason for Removal:	
2.			Rte Desc:	
			Reason for Removal:	
3.			Rte Desc:	
			Reason for Removal:	

Routes modified from previous inventory: No routes modified from previous inventory.

	Rte #	Rte Name		
1.			Rte Desc:	
			Modification:	
2.			Rte Desc:	
			Modification:	
3.			Rte Desc:	
			Modification:	

Comments:

Excellent | Good | Fair | Poor | Failed

Bridge | Begin Section | Boat Ramp | Gate | Low Water Crossing | Fee Station | Culvert | Intersection | Political Boundary | Deficiency | Railroad Crossing | Turnout/Parking | Visitor Center | Problem Area

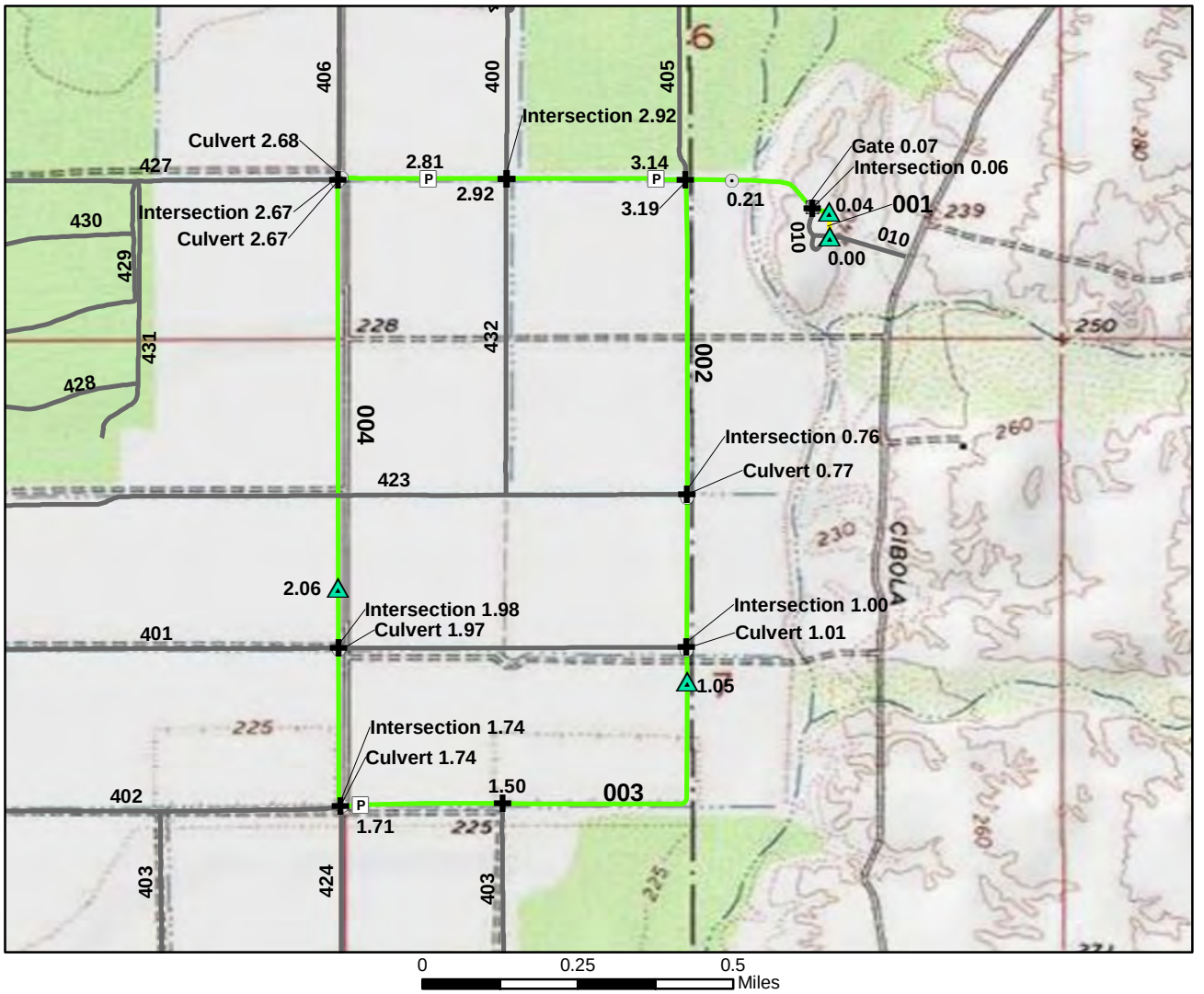
N

ROUTE: 010 Refuge Entrance Road TOTAL LENGTH: 0.23 Miles

ASSET: 10009664

RTE DESCRIPTION: From Cibola Road to Auto Tour Loop Road (Route 011)

Section Number	001	002	003		
Section Length (miles)	0.11	0.07	0.05		
Inspection Date	4/3/2008	4/3/2008	4/3/2008		
Section Information					
Surface Type	Asphalt	Asphalt	Gravel		
Number of Lanes	2	1	2		
Roadway Width (feet)	20	12	18		
Roadway Condition Information					
Condition	Poor	Fair	Excellent		
Remaining Service Life (years)	6	8	9		
Cost Estimate	$76900	$9100	$0		
CRV	$156200	$100400	$38900		



Excellent | Good | Fair | Poor | Failed

Bridge | Begin Section | Boat Ramp | Gate | Low Water Crossing | Fee Station | Culvert | Intersection | Political Boundary | Deficiency | Railroad Crossing | Turnout/Parking | Visitor Center | Problem Area

N

ROUTE: 011 Auto Tour Loop Road TOTAL LENGTH: 3.20 Miles

ASSET: 10009692

RTE DESCRIPTION: From Refuge Entrance Road (Route 010) to end of loop

Section Number	001	002	003	004	
Section Length (miles)	0.04	1.02	1.01	1.13	
Inspection Date	4/3/2008	4/3/2008	4/3/2008	4/3/2008	
Section Information					
Surface Type	Asphalt	Gravel	Gravel	Gravel	
Number of Lanes	2	2	2	2	
Roadway Width (feet)	18	20	18	18	
Roadway Condition Information					
Condition	Fair	Good	Good	Good	
Remaining Service Life (years)	10	7	7	7	
Cost Estimate	$4900	$1900	$1900	$2200	
CRV	$54400	$825300	$821100	$921700	

Excellent | Good | Fair | Poor | Failed

Bridge | Begin Section | Boat Ramp | Gate | Low Water Crossing | Fee Station | Culvert | Intersection | Political Boundary | Deficiency | Railroad Crossing | Turnout/Parking | Visitor Center | Problem Area

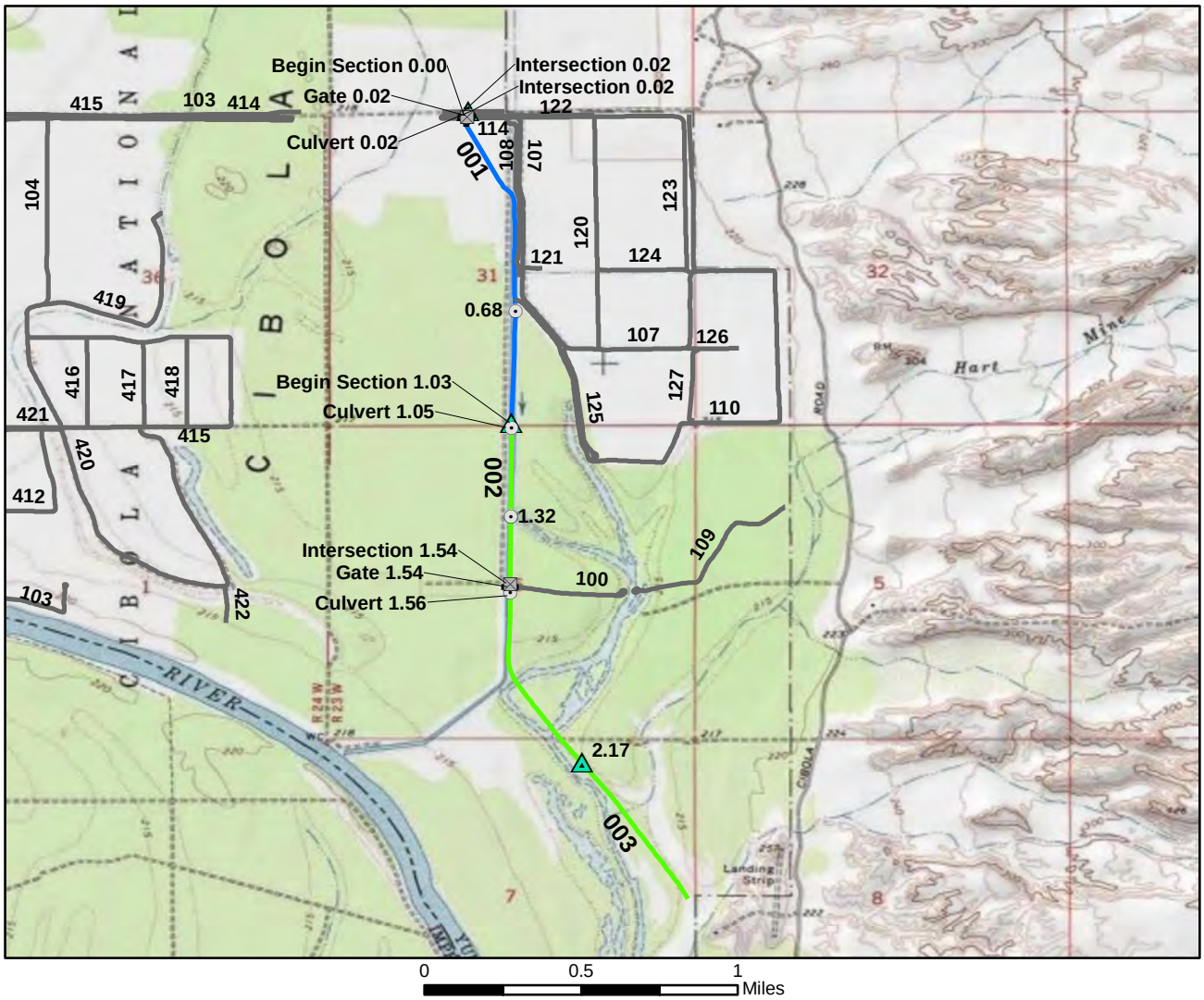
N

ROUTE: 100 West Hart Mine Marsh Road TOTAL LENGTH: 0.35 Miles

ASSET:

RTE DESCRIPTION: From Arnett Ditch Road (Route 101) to boat ramp

Section Number	001				
Section Length (miles)	0.35				
Inspection Date	4/4/2008				
Section Information					
Surface Type	Gravel				
Number of Lanes	2				
Roadway Width (feet)	20				
Roadway Condition Information					
Condition	Good				
Remaining Service Life (years)	7				
Cost Estimate	$700				
CRV	$285500				



Excellent | Good | Fair | Poor | Failed

Bridge | Begin Section | Boat Ramp | Gate | Low Water Crossing | Fee Station | Culvert | Intersection | Political Boundary | Deficiency | Railroad Crossing | Turnout/Parking | Visitor Center | Problem Area

N

ROUTE: 101 Arnett Ditch Road

TOTAL LENGTH: 2.70 Miles

ASSET: 10009720

RTE DESCRIPTION: From Farm Unit 2 Access Road 1 (Route 114) to end of route

Section Number	001	002	003		
Section Length (miles)	1.03	1.14	0.52		
Inspection Date	4/4/2008	4/4/2008	4/4/2008		
Section Information					
Surface Type	Gravel	Gravel	Gravel		
Number of Lanes	2	2	2		
Roadway Width (feet)	18	16	16		
Roadway Condition Information					
Condition	Excellent	Good	Good		
Remaining Service Life (years)	9	7	5		
Cost Estimate	$0	$2200	$1000		
CRV	$836500	$929200	$423500		

Excellent | Good | Fair | Poor | Failed

Bridge
Begin Section
Boat Ramp
Gate
Low Water Crossing
Fee Station
Culvert
Intersection
Political Boundary
Deficiency
Railroad Crossing
Turnout/Parking
Visitor Center
Problem Area

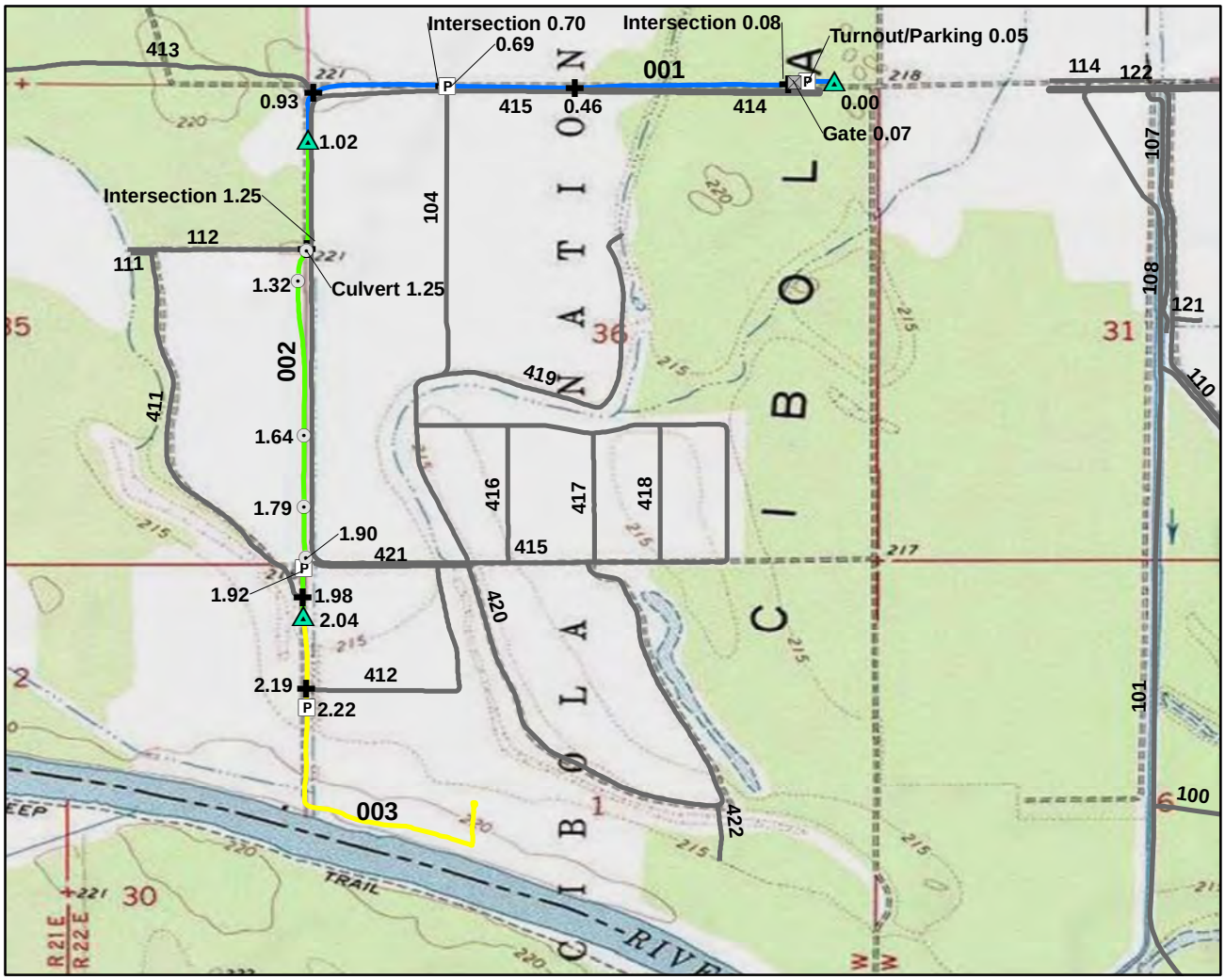
N

ROUTE: 102 Cibola Lake Road TOTAL LENGTH: 0.35 Miles

ASSET:

RTE DESCRIPTION: From Riverside Road to FWS boundary

Section Number	001				
Section Length (miles)	0.35				
Inspection Date	4/4/2008				
Section Information					
Surface Type	Gravel				
Number of Lanes	1				
Roadway Width (feet)	12				
Roadway Condition Information					
Condition	Good				
Remaining Service Life (years)	5				
Cost Estimate	$700				
CRV	$280800				



0 0.25 0.5 1 Miles

Excellent | Good | Fair | Poor | Failed

N

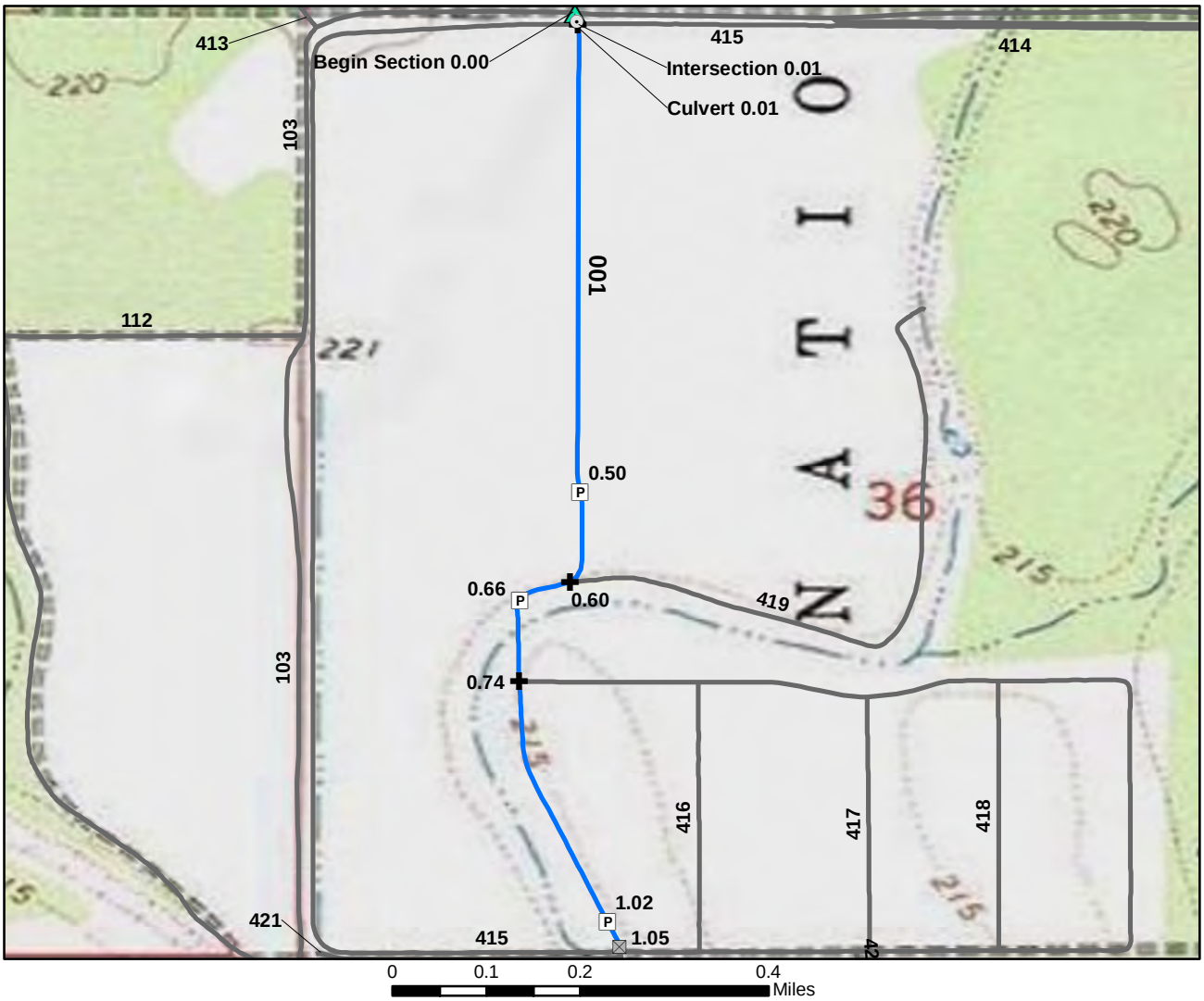
Bridge | Gate | Culvert | Deficiency
Begin Section | Low Water Crossing | Intersection | Railroad Crossing | Visitor Center
Boat Ramp | Fee Station | Political Boundary | Turnout/Parking | Problem Area

ROUTE: 103 Island Unit Public Access Road TOTAL LENGTH: 2.83 Miles

ASSET: 10009693

RTE DESCRIPTION: From refuge boundary at Colorado River to end of loop

Section Number	001	002	003		
Section Length (miles)	1.02	1.00	0.81		
Inspection Date	4/3/2008	4/3/2008	4/4/2008		
Section Information					
Surface Type	Gravel	Gravel	Native		
Number of Lanes	1	1	1		
Roadway Width (feet)	14	14	12		
Roadway Condition Information					
Condition	Excellent	Good	Fair		
Remaining Service Life (years)	8	7	3		
Cost Estimate	$0	$1900	$2100		
CRV	$827000	$813600	$339900		



Excellent | Good | Fair | Poor | Failed

Bridge | Gate | Culvert | Deficiency
Begin Section | Low Water Crossing | Intersection | Railroad Crossing | Visitor Center
Boat Ramp | Fee Station | Political Boundary | Turnout/Parking | Problem Area

N

ROUTE: 104 Island Unit Middle Road TOTAL LENGTH: 1.05 Miles

ASSET: 10009693

RTE DESCRIPTION: From Island Unit Public Road (Route 103) to Island Unit Access Road 1 (Route 415)

Section Number	001				
Section Length (miles)	1.05				
Inspection Date	4/3/2008				
Section Information					
Surface Type	Gravel				
Number of Lanes	1				
Roadway Width (feet)	14				
Roadway Condition Information					
Condition	Excellent				
Remaining Service Life (years)	8				
Cost Estimate	$0				
CRV	$854000				

Excellent | Good | Fair | Poor | Failed

N

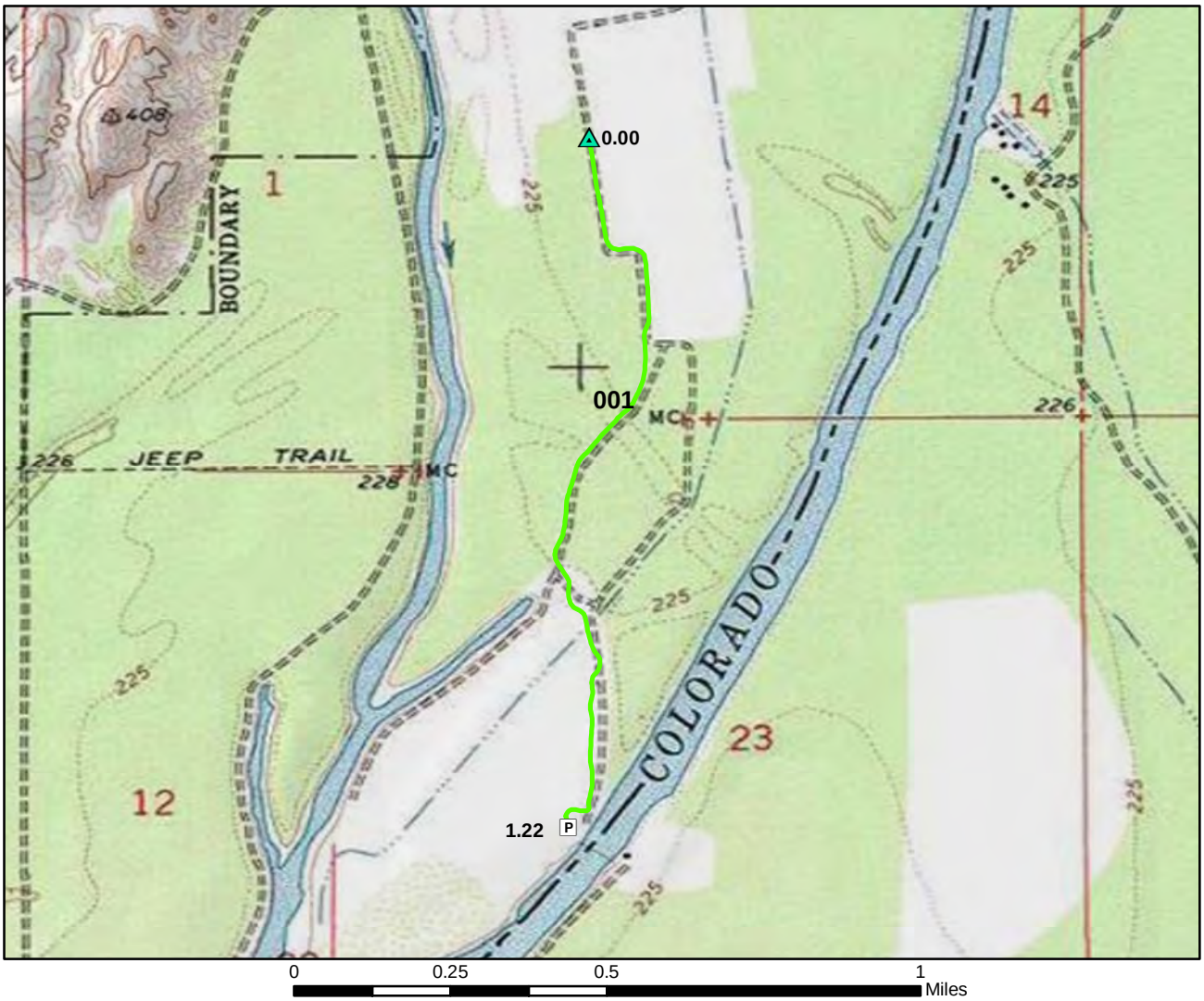
Bridge
Begin Section
Boat Ramp
Gate
Low Water Crossing
Fee Station
Culvert
Intersection
Political Boundary
Deficiency
Railroad Crossing
Turnout/Parking
Visitor Center
Problem Area

ROUTE: 105 Three Finger Lake Road TOTAL LENGTH: 1.91 Miles

ASSET:

RTE DESCRIPTION: From Walters Camp Road and FWS boundary to Three Fingers Lake Parking (Route 907)

Section Number	001	002	003		
Section Length (miles)	0.82	0.75	0.33		
Inspection Date	4/3/2008	4/3/2008	4/4/2008		
Section Information					
Surface Type	Gravel	Gravel	Gravel		
Number of Lanes	1	1	1		
Roadway Width (feet)	14	12	12		
Roadway Condition Information					
Condition	Good	Good	Poor		
Remaining Service Life (years)	5	7	2		
Cost Estimate	$1600	$1400	$50000		
CRV	$668600	$610300	$270000		



Excellent | Good | Fair | Poor | Failed

N

Bridge
Begin Section
Boat Ramp
Gate
Low Water Crossing
Fee Station
Culvert
Intersection
Political Boundary
Deficiency
Railroad Crossing
Turnout/Parking
Visitor Center
Problem Area

ROUTE: 106 Pretty Water Road TOTAL LENGTH: 1.22 Miles

ASSET: 10009694

RTE DESCRIPTION: From Marlow Road to Pretty Woman Parking (Route 906)

Section Number	001				
Section Length (miles)	1.22				
Inspection Date	4/4/2008				
Section Information					
Surface Type	Gravel				
Number of Lanes	1				
Roadway Width (feet)	12				
Roadway Condition Information					
Condition	Good				
Remaining Service Life (years)	6				
Cost Estimate	$2300				
CRV	$992400				

Excellent | Good | Fair | Poor | Failed

Bridge | Begin Section | Boat Ramp | Gate | Low Water Crossing | Fee Station | Culvert | Intersection | Political Boundary | Deficiency | Railroad Crossing | Turnout/Parking | Visitor Center | Problem Area

N

ROUTE: 107 Farm Unit 2 Goose Hunt Road TOTAL LENGTH: 1.86 Miles

ASSET: 10009717

RTE DESCRIPTION: From FWS boundary at Hart Mine Road (East) to FWS boundary at Hart Mine Road (West)

Section Number	001	002			
Section Length (miles)	1.01	0.85			
Inspection Date	4/4/2008	4/4/2008			
Section Information					
Surface Type	Gravel	Gravel			
Number of Lanes	2	2			
Roadway Width (feet)	16	16			
Roadway Condition Information					
Condition	Good	Good			
Remaining Service Life (years)	6	6			
Cost Estimate	$1900	$1600			
CRV	$821900	$692200			

Excellent | Good | Fair | Poor | Failed

N

Bridge
Begin Section
Boat Ramp
Gate
Low Water Crossing
Fee Station
Culvert
Intersection
Political Boundary
Deficiency
Railroad Crossing
Turnout/Parking
Visitor Center
Problem Area

ROUTE: 108 Farm Unit 2 Access Road 2 TOTAL LENGTH: 0.53 Miles

ASSET:

RTE DESCRIPTION: From Fam Unit 2 North Dike Loop to end of route

Section Number	001				
Section Length (miles)	0.53				
Inspection Date	4/4/2008				
Section Information					
Surface Type	Native				
Number of Lanes	1				
Roadway Width (feet)	12				
Roadway Condition Information					
Condition	Poor				
Remaining Service Life (years)	2				
Cost Estimate	$19600				
CRV	$223100				

Excellent | Good | Fair | Poor | Failed

Bridge | Gate | Culvert | Deficiency
Begin Section | Low Water Crossing | Intersection | Railroad Crossing | Visitor Center
Boat Ramp | Fee Station | Political Boundary | Turnout/Parking | Problem Area

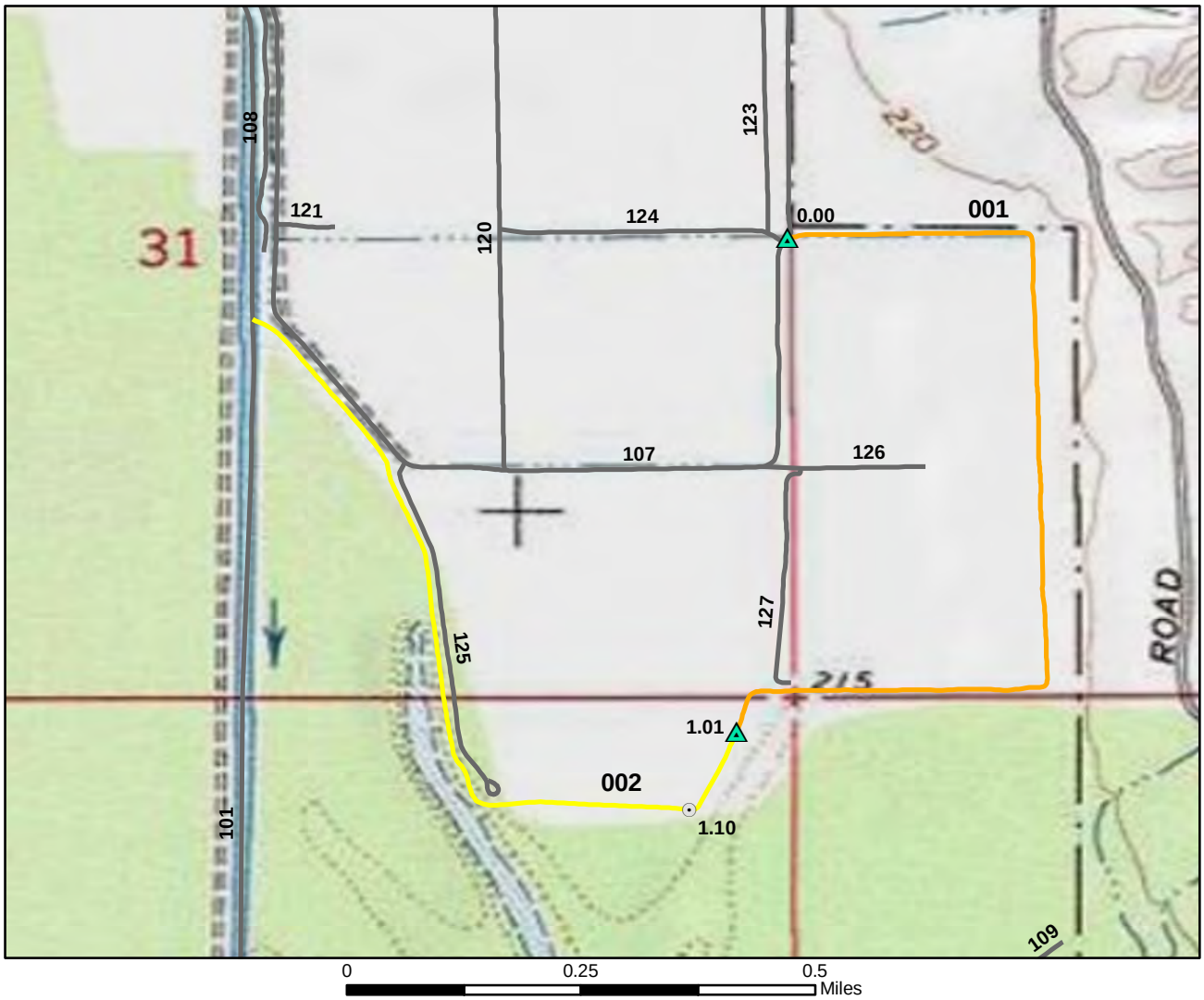
N

ROUTE: 109 East Hart Mine Marsh Road TOTAL LENGTH: 0.57 Miles

ASSET: 10009716

RTE DESCRIPTION: From Cibola Road (east FWS boundary) to boat ramp

Section Number	001				
Section Length (miles)	0.57				
Inspection Date	4/4/2008				
Section Information					
Surface Type	Gravel				
Number of Lanes	2				
Roadway Width (feet)	20				
Roadway Condition Information					
Condition	Good				
Remaining Service Life (years)	7				
Cost Estimate	$1100				
CRV	$462100				



Excellent | Good | Fair | Poor | Failed

Bridge | Begin Section | Boat Ramp | Gate | Low Water Crossing | Fee Station | Culvert | Intersection | Political Boundary | Deficiency | Railroad Crossing | Turnout/Parking | Visitor Center | Problem Area

N

ROUTE: 110 Farm Unit 2 Southeast Access Road TOTAL LENGTH: 1.86 Miles

ASSET:

RTE DESCRIPTION: From Farm Unit 2 Goose Hunt Road (Route 107) to Arnett Ditch Road (Route 101)

Section Number	001	002			
Section Length (miles)	1.01	0.86			
Inspection Date	4/4/2008	4/4/2008			
Section Information					
Surface Type	Native	Native			
Number of Lanes	1	1			
Roadway Width (feet)	10	12			
Roadway Condition Information					
Condition	Poor	Fair			
Remaining Service Life (years)	2	3			
Cost Estimate	$37100	$2200			
CRV	$422700	$359900			

Excellent Good Fair Poor Failed

Bridge
Begin Section
Boat Ramp
Gate
Low Water Crossing
Fee Station
Culvert
Intersection
Political Boundary
Deficiency
Railroad Crossing
Turnout/Parking
Visitor Center
Problem Area

N

ROUTE: 111 Island Unit Boat Ramp Access Road 2 TOTAL LENGTH: 0.05 Miles

ASSET: 10009693

RTE DESCRIPTION: From Island Unit Access Road 4 (Route 411) to end of route at boat ramp

Section Number	001				
Section Length (miles)	0.05				
Inspection Date	4/4/2008				
Section Information					
Surface Type	Gravel				
Number of Lanes	1				
Roadway Width (feet)	12				
Roadway Condition Information					
Condition	Excellent				
Remaining Service Life (years)	9				
Cost Estimate	$0				
CRV	$36700				

Excellent Good Fair Poor Failed

Bridge
Begin Section
Boat Ramp
Gate
Low Water Crossing
Fee Station
Culvert
Intersection
Political Boundary
Deficiency
Railroad Crossing
Turnout/Parking
Visitor Center
Problem Area

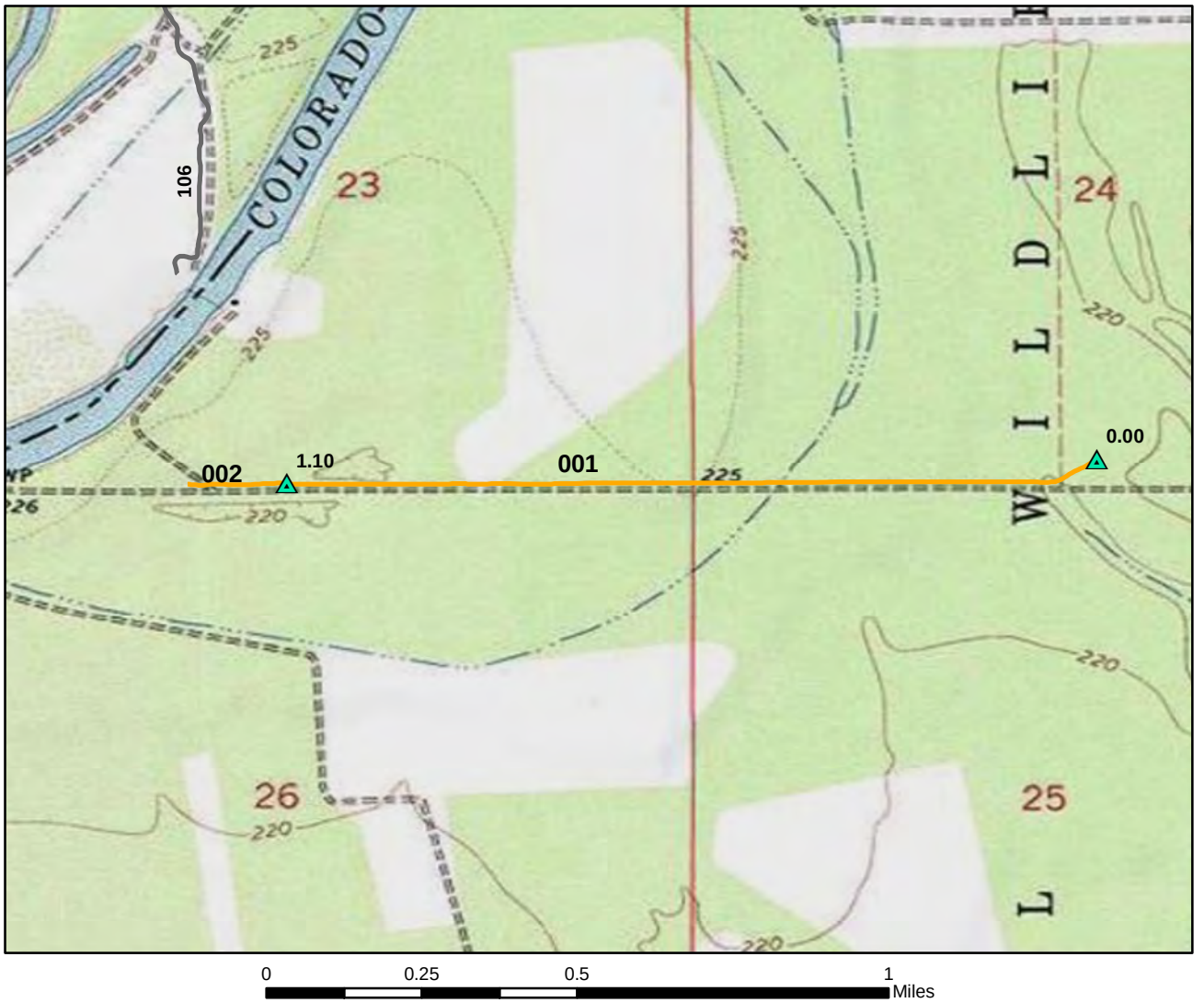
N

ROUTE: 112 Island Unit Boat Ramp Access Road 1 TOTAL LENGTH: 0.32 Miles

ASSET: 10009693

RTE DESCRIPTION: From Island Unit Public Access Road (Route 103) to boat ramp

Section Number	001				
Section Length (miles)	0.32				
Inspection Date	4/4/2008				
Section Information					
Surface Type	Gravel				
Number of Lanes	1				
Roadway Width (feet)	12				
Roadway Condition Information					
Condition	Excellent				
Remaining Service Life (years)	10				
Cost Estimate	$0				
CRV	$256200				



ROUTE: 113 Fire Break Road TOTAL LENGTH: 1.24 Miles

ASSET:

RTE DESCRIPTION: From refuge boundary at Colorado River to end of route

Section Number	001	002			
Section Length (miles)	1.10	0.13			
Inspection Date	4/4/2008	4/4/2008			
Section Information					
Surface Type	Native	Native			
Number of Lanes	1	1			
Roadway Width (feet)	10	10			
Roadway Condition Information					
Condition	Poor	Poor			
Remaining Service Life (years)	2	2			
Cost Estimate	$40700	$5000			
CRV	$463600	$56600			

Excellent | Good | Fair | Poor | Failed

Bridge | Gate | Culvert | Deficiency
Begin Section | Low Water Crossing | Intersection | Railroad Crossing | Visitor Center
Boat Ramp | Fee Station | Political Boundary | Turnout/Parking | Problem Area

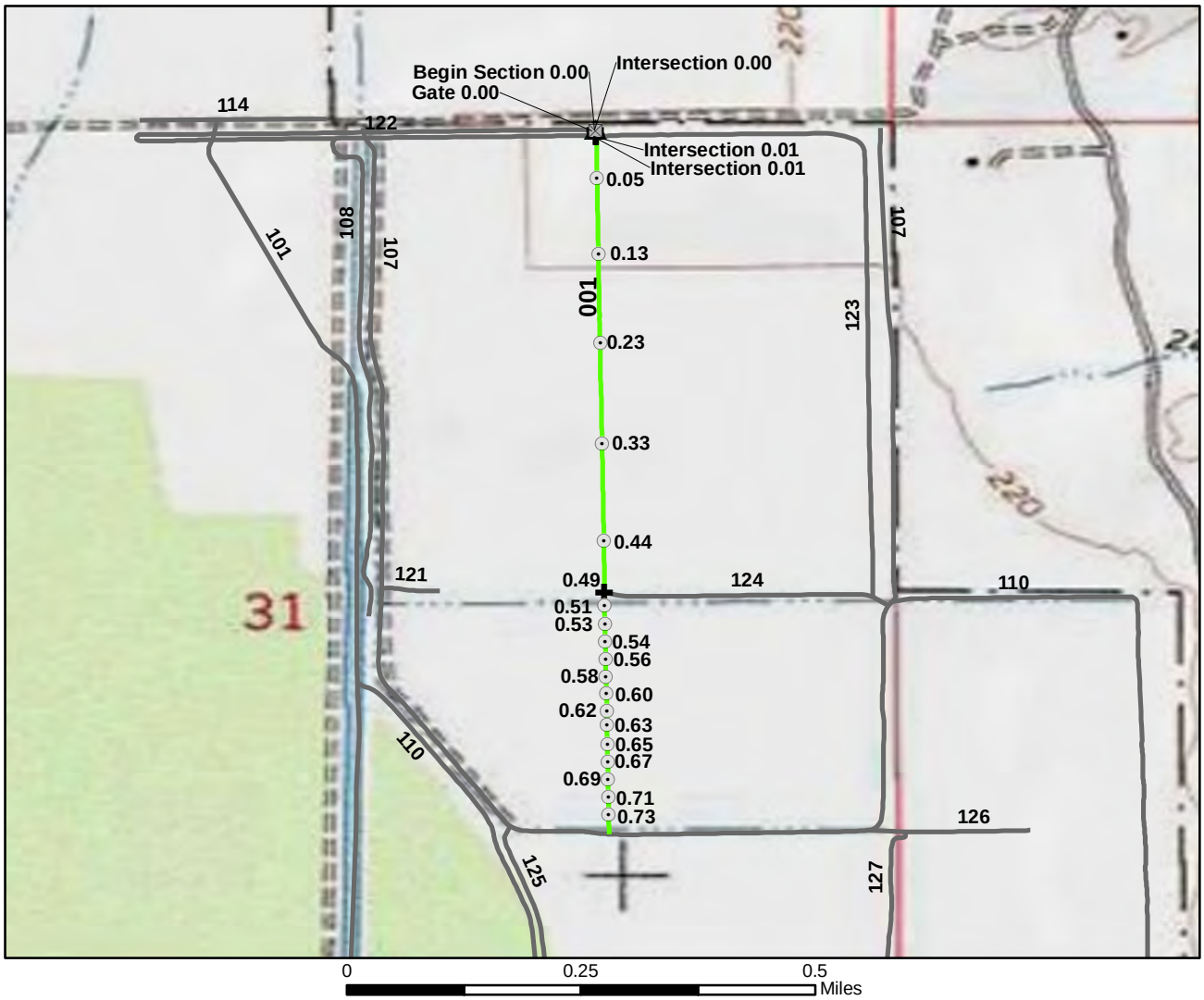
N

ROUTE: 114 Farm Unit 2 Access Road 1 TOTAL LENGTH: 0.17 Miles

ASSET: 10009693

RTE DESCRIPTION: From start of route to end of route

Section Number	001				
Section Length (miles)	0.17				
Inspection Date	4/4/2008				
Section Information					
Surface Type	Gravel				
Number of Lanes	2				
Roadway Width (feet)	30				
Roadway Condition Information					
Condition	Good				
Remaining Service Life (years)	7				
Cost Estimate	$300				
CRV	$136000				



Excellent Good Fair Poor Failed

Bridge
Begin Section
Boat Ramp
Gate
Low Water Crossing
Fee Station
Culvert
Intersection
Political Boundary
Deficiency
Railroad Crossing
Turnout/Parking
Visitor Center
Problem Area

N

ROUTE: 120 Farm Unit 2 Central Access Road TOTAL LENGTH: 0.75 Miles

ASSET: 10009717

RTE DESCRIPTION: From Hart Mine Road to Farm Unit 2 Goose Hunt Road

Section Number	001				
Section Length (miles)	0.75				
Inspection Date	4/4/2008				
Section Information					
Surface Type	Gravel				
Number of Lanes	1				
Roadway Width (feet)	12				
Roadway Condition Information					
Condition	Good				
Remaining Service Life (years)	7				
Cost Estimate	$1400				
CRV	$609100				

Excellent Good Fair Poor Failed

N

Bridge
Begin Section
Boat Ramp
Gate
Low Water Crossing
Fee Station
Culvert
Intersection
Political Boundary
Deficiency
Railroad Crossing
Turnout/Parking
Visitor Center
Problem Area

ROUTE: 121 Farm Unit 2 Hunting Blind Access Road TOTAL LENGTH: 0.05 Miles

ASSET: 10009717

RTE DESCRIPTION: From Farm Unit 2 Goose Hunt Road (Route 107) to end of route

Section Number	001				
Section Length (miles)	0.05				
Inspection Date	4/4/2008				
Section Information					
Surface Type	Gravel				
Number of Lanes	2				
Roadway Width (feet)	18				
Roadway Condition Information					
Condition	Good				
Remaining Service Life (years)	7				
Cost Estimate	$100				
CRV	$42500				

Excellent | Good | Fair | Poor | Failed

N

Bridge | Gate | Culvert | Deficiency
Begin Section | Low Water Crossing | Intersection | Railroad Crossing | Visitor Center
Boat Ramp | Fee Station | Political Boundary | Turnout/Parking | Problem Area

ROUTE: 122 Farm Unit 2 North Dike Loop TOTAL LENGTH: 0.82 Miles

ASSET:

RTE DESCRIPTION: From Farm Unit 2 Central Access Road (Route 120) (North) to Farm Unit 2 Central Access Road (Route 120) (South)

Section Number	001				
Section Length (miles)	0.82				
Inspection Date	4/4/2008				
Section Information					
Surface Type	Gravel				
Number of Lanes	2				
Roadway Width (feet)	16				
Roadway Condition Information					
Condition	Good				
Remaining Service Life (years)	7				
Cost Estimate	$1600				
CRV	$670100				

Excellent | Good | Fair | Poor | Failed

Bridge | Gate | Culvert | Deficiency
Begin Section | Low Water Crossing | Intersection | Railroad Crossing | Visitor Center
Boat Ramp | Fee Station | Political Boundary | Turnout/Parking | Problem Area

N

ROUTE: 123 Farm Unit 2 Access Road 3 TOTAL LENGTH: 0.72 Miles

ASSET:

RTE DESCRIPTION: From Farm Unit 2 Central Access Road (Route 120) to Farm Unit 2 Access Road 4

Section Number	001				
Section Length (miles)	0.72				
Inspection Date	4/4/2008				
Section Information					
Surface Type	Native				
Number of Lanes	1				
Roadway Width (feet)	12				
Roadway Condition Information					
Condition	Fair				
Remaining Service Life (years)	3				
Cost Estimate	$1800				
CRV	$303700				

Excellent Good Fair Poor Failed

Bridge
Begin Section
Boat Ramp
Gate
Low Water Crossing
Fee Station
Culvert
Intersection
Political Boundary
Deficiency
Railroad Crossing
Turnout/Parking
Visitor Center
Problem Area

N

ROUTE: 124 Farm Unit 2 Access Road 4 TOTAL LENGTH: 0.26 Miles

ASSET: 10009717

RTE DESCRIPTION: From Farm Unit 2 Goose Hunt Road (Route 107) to Farm Unit 2 Central Access Road (Route 120)

Section Number	001				
Section Length (miles)	0.26				
Inspection Date	4/4/2008				
Section Information					
Surface Type	Gravel				
Number of Lanes	1				
Roadway Width (feet)	12				
Roadway Condition Information					
Condition	Good				
Remaining Service Life (years)	7				
Cost Estimate	$500				
CRV	$209200				

Excellent | Good | Fair | Poor | Failed

Bridge | Begin Section | Boat Ramp | Gate | Low Water Crossing | Fee Station | Culvert | Intersection | Political Boundary | Deficiency | Railroad Crossing | Turnout/Parking | Visitor Center | Problem Area

N

ROUTE: 125 Farm Unit 2 Access Road 5 TOTAL LENGTH: 0.39 Miles

ASSET:

RTE DESCRIPTION: From Farm Unit 2 Goose Hunt Road (Route 107) to end of loop

Section Number	001				
Section Length (miles)	0.39				
Inspection Date	4/4/2008				
Section Information					
Surface Type	Native				
Number of Lanes	1				
Roadway Width (feet)	12				
Roadway Condition Information					
Condition	Fair				
Remaining Service Life (years)	3				
Cost Estimate	$1000				
CRV	$165600				

Excellent | Good | Fair | Poor | Failed

Bridge | Gate | Culvert | Deficiency
Begin Section | Low Water Crossing | Intersection | Railroad Crossing | Visitor Center
Boat Ramp | Fee Station | Political Boundary | Turnout/Parking | Problem Area

N

ROUTE: 126 Farm Unit 2 Access Road 6 TOTAL LENGTH: 0.15 Miles

ASSET:

RTE DESCRIPTION: From Farm Unit 2 Goose Hunt Road (Route 107) to end of route

Section Number	001				
Section Length (miles)	0.15				
Inspection Date	4/4/2008				
Section Information					
Surface Type	Native				
Number of Lanes	1				
Roadway Width (feet)	10				
Roadway Condition Information					
Condition	Good				
Remaining Service Life (years)	5				
Cost Estimate	$300				
CRV	$61000				

Excellent | Good | Fair | Poor | Failed

Bridge | Begin Section | Boat Ramp | Gate | Low Water Crossing | Fee Station | Culvert | Intersection | Political Boundary | Deficiency | Railroad Crossing | Turnout/Parking | Visitor Center | Problem Area

N

ROUTE: 127 Farm Unit 2 Access Road 7 TOTAL LENGTH: 0.25 Miles

ASSET:

RTE DESCRIPTION: From Farm Unit 2 Access Road 6 (Route 126) to end of route

Section Number	001				
Section Length (miles)	0.25				
Inspection Date	4/4/2008				
Section Information					
Surface Type	Native				
Number of Lanes	1				
Roadway Width (feet)	10				
Roadway Condition Information					
Condition	Good				
Remaining Service Life (years)	5				
Cost Estimate	$500				
CRV	$104100				

Excellent | Good | Fair | Poor | Failed

Bridge | Gate | Culvert | Deficiency
Begin Section | Low Water Crossing | Intersection | Railroad Crossing | Visitor Center
Boat Ramp | Fee Station | Political Boundary | Turnout/Parking | Problem Area

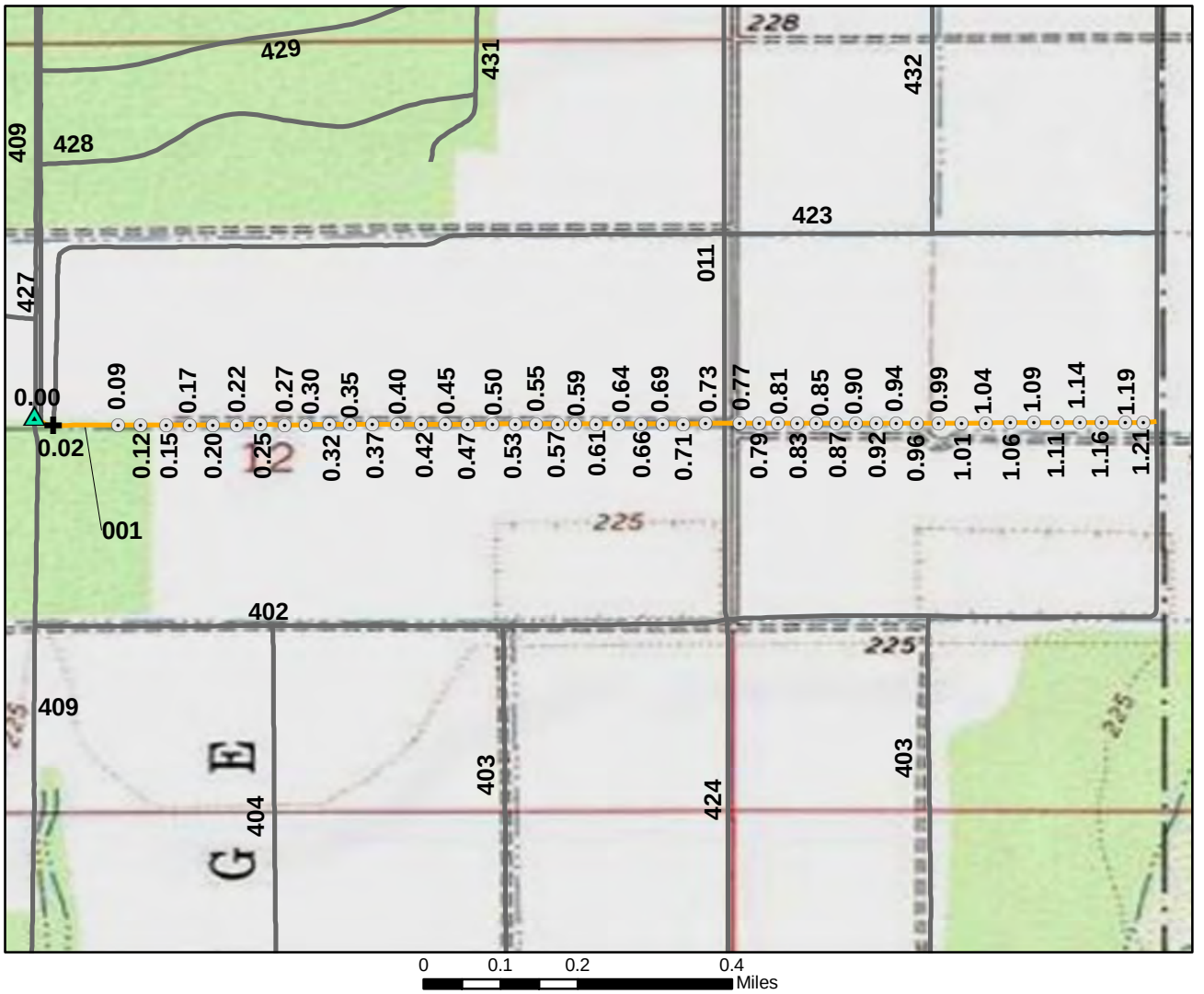
N

ROUTE: 400 Long Pond Road TOTAL LENGTH: 0.72 Miles

ASSET:

RTE DESCRIPTION: From Auto Tour Loop Road (Route 011) to Pump Unit #1 Road (Route 405)

Section Number	001	002			
Section Length (miles)	0.49	0.23			
Inspection Date	4/3/2008	4/3/2008			
Section Information					
Surface Type	Native	Native			
Number of Lanes	1	1			
Roadway Width (feet)	12	10			
Roadway Condition Information					
Condition	Poor	Fair			
Remaining Service Life (years)	2	3			
Cost Estimate	$18100	$600			
CRV	$206600	$95400			



Excellent | Good | Fair | Poor | Failed

Bridge | Begin Section | Boat Ramp | Gate | Low Water Crossing | Fee Station | Culvert | Intersection | Political Boundary | Deficiency | Railroad Crossing | Turnout/Parking | Visitor Center | Problem Area

N

ROUTE: 401 Farm Unit 1 Access Road 1 TOTAL LENGTH: 1.22 Miles

ASSET: 10009718

RTE DESCRIPTION: From Auto Tour Loop Road (Route 011) to From Unit 1 West Access Road (Route 409)

Section Number	001				
Section Length (miles)	1.22				
Inspection Date	4/3/2008				
Section Information					
Surface Type	Gravel				
Number of Lanes	1				
Roadway Width (feet)	12				
Roadway Condition Information					
Condition	Poor				
Remaining Service Life (years)	2				
Cost Estimate	$184000				
CRV	$993400				

Excellent | Good | Fair | Poor | Failed

Bridge | Begin Section | Boat Ramp | Gate | Low Water Crossing | Fee Station | Culvert | Intersection | Political Boundary | Deficiency | Railroad Crossing | Turnout/Parking | Visitor Center | Problem Area

N

ROUTE: 402 Farm Unit 1 Access Road 2 TOTAL LENGTH: 0.76 Miles

ASSET: 10009718

RTE DESCRIPTION: From Farm Unit 1 West Access Road to Farm Unit 1 South Dike Access 1A

Section Number	001				
Section Length (miles)	0.76				
Inspection Date	4/3/2008				
Section Information					
Surface Type	Gravel				
Number of Lanes	1				
Roadway Width (feet)	12				
Roadway Condition Information					
Condition	Good				
Remaining Service Life (years)	7				
Cost Estimate	$1400				
CRV	$615600				

Excellent Good Fair Poor Failed

Bridge
Begin Section
Boat Ramp
Gate
Low Water Crossing
Fee Station
Culvert
Intersection
Political Boundary
Deficiency
Railroad Crossing
Turnout/Parking
Visitor Center
Problem Area

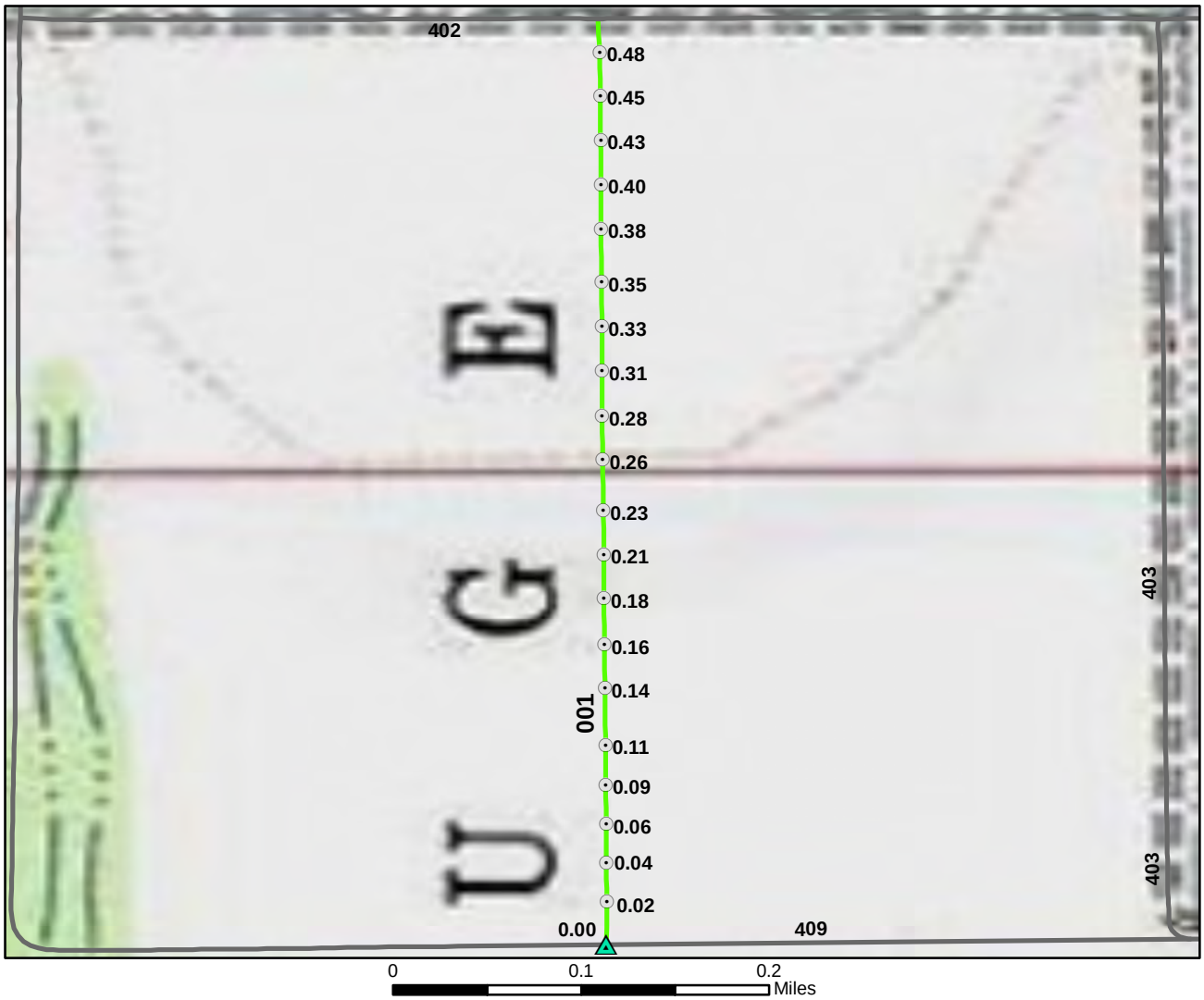
N

ROUTE: 403 Farm Unit 1 South Dike Access Road 1 TOTAL LENGTH: 1.44 Miles

ASSET:

RTE DESCRIPTION: From Farm Unit 1 South Dike Access 1 (Route 403) to Farm Unit 1 Access Road 2 (Route 402)

Section Number	001	002			
Section Length (miles)	1.02	0.42			
Inspection Date	4/3/2008	4/3/2008			
Section Information					
Surface Type	Gravel	Gravel			
Number of Lanes	1	1			
Roadway Width (feet)	10	10			
Roadway Condition Information					
Condition	Good	Poor			
Remaining Service Life (years)	7	2			
Cost Estimate	$1900	$63400			
CRV	$828200	$342400			



Excellent | Good | Fair | Poor | Failed

Bridge | Gate | Culvert | Deficiency
Begin Section | Low Water Crossing | Intersection | Railroad Crossing | Visitor Center
Boat Ramp | Fee Station | Political Boundary | Turnout/Parking | Problem Area

N

ROUTE: 404 Farm Unit 1 South Dike Access Road 2 TOTAL LENGTH: 0.49 Miles

ASSET:

RTE DESCRIPTION: From Farm Unit 1 South Dike Access 2 (Route 402) to Farm Unit 1 West Access Road (Route 409)

Section Number	001				
Section Length (miles)	0.49				
Inspection Date	4/3/2008				
Section Information					
Surface Type	Gravel				
Number of Lanes	1				
Roadway Width (feet)	10				
Roadway Condition Information					
Condition	Good				
Remaining Service Life (years)	5				
Cost Estimate	$900				
CRV	$400600				

Excellent | Good | Fair | Poor | Failed

Bridge | Begin Section | Boat Ramp | Gate | Low Water Crossing | Fee Station | Culvert | Intersection | Political Boundary | Deficiency | Railroad Crossing | Turnout/Parking | Visitor Center | Problem Area

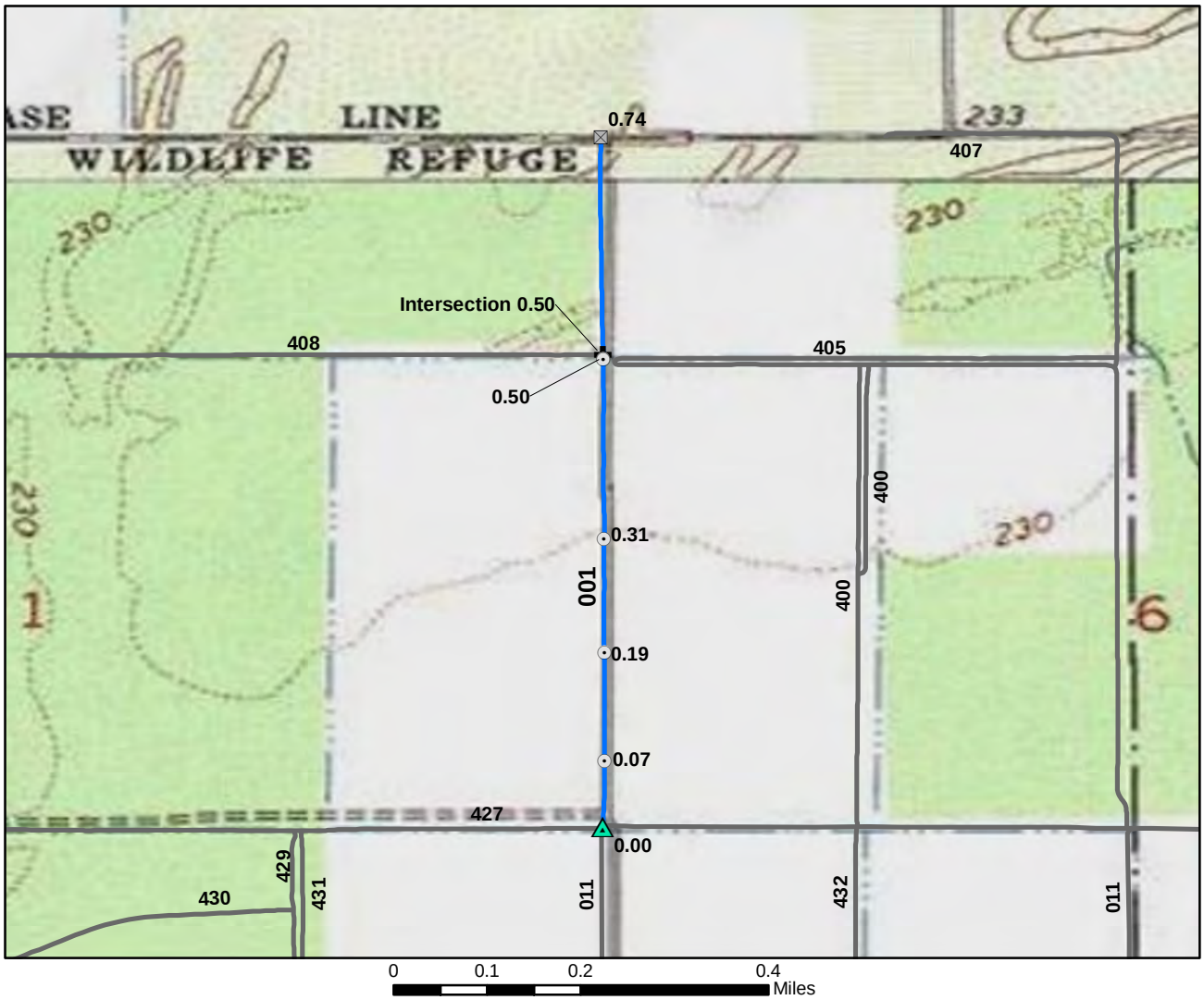
N

ROUTE: 405 Pump Unit #1 Road TOTAL LENGTH: 1.39 Miles

ASSET:

RTE DESCRIPTION: From Auto Tour Loop Road (Route 011) to Farm Unit 1 Northeast Access Road (Route 407)

Section Number	001	002			
Section Length (miles)	1.01	0.38			
Inspection Date	4/3/2008	4/3/2008			
Section Information					
Surface Type	Native	Native			
Number of Lanes	1	1			
Roadway Width (feet)	10	10			
Roadway Condition Information					
Condition	Good	Good			
Remaining Service Life (years)	5	5			
Cost Estimate	$2000	$800			
CRV	$424000	$160800			



Excellent Good Fair Poor Failed

Bridge
Begin Section
Boat Ramp
Gate
Low Water Crossing
Fee Station
Culvert
Intersection
Political Boundary
Deficiency
Railroad Crossing
Turnout/Parking
Visitor Center
Problem Area

N

ROUTE: 406 Cottonwood Restoration Area Road TOTAL LENGTH: 0.74 Miles

ASSET:

RTE DESCRIPTION: From Auto Tour Loop Road (Route 011) to refuge boundary at Base Line Road

Section Number	001				
Section Length (miles)	0.74				
Inspection Date	4/3/2008				
Section Information					
Surface Type	Gravel				
Number of Lanes	2				
Roadway Width (feet)	18				
Roadway Condition Information					
Condition	Excellent				
Remaining Service Life (years)	8				
Cost Estimate	$0				
CRV	$598000				

Excellent Good Fair Poor Failed

Bridge
Begin Section
Boat Ramp
Gate
Low Water Crossing
Fee Station
Culvert
Intersection
Political Boundary
Deficiency
Railroad Crossing
Turnout/Parking
Visitor Center
Problem Area

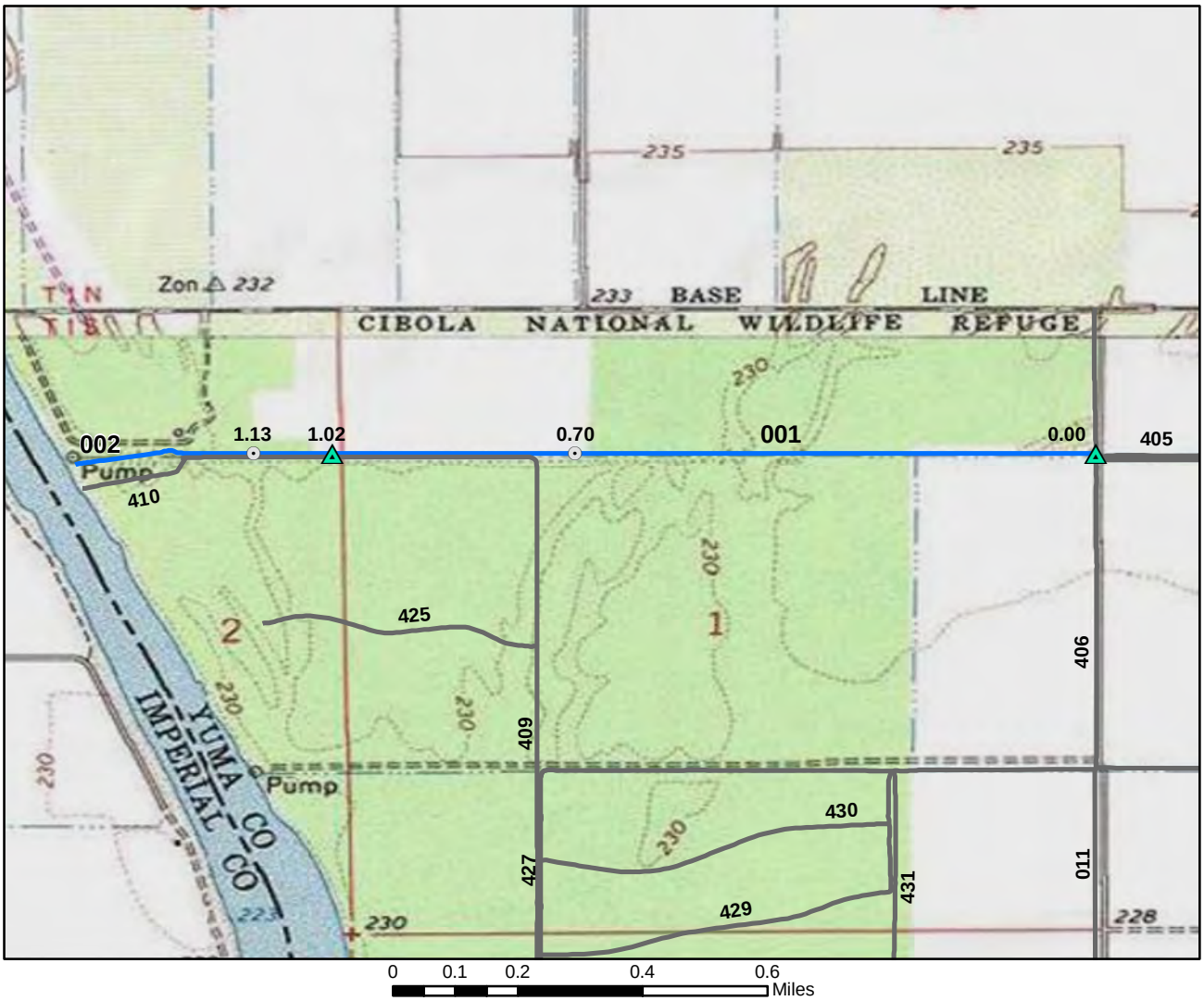
N

ROUTE: 407 Farm Unit 1 Norheast Access Road TOTAL LENGTH: 0.45 Miles

ASSET:

RTE DESCRIPTION: From Pump Unit #1 Road (Route 405) to end of route

Section Number	001				
Section Length (miles)	0.45				
Inspection Date	4/3/2008				
Section Information					
Surface Type	Native				
Number of Lanes	1				
Roadway Width (feet)	10				
Roadway Condition Information					
Condition	Fair				
Remaining Service Life (years)	3				
Cost Estimate	$1200				
CRV	$190700				



Excellent Good Fair Poor Failed

Bridge
Begin Section
Boat Ramp
Gate
Low Water Crossing
Fee Station
Culvert
Intersection
Political Boundary
Deficiency
Railroad Crossing
Turnout/Parking
Visitor Center
Problem Area

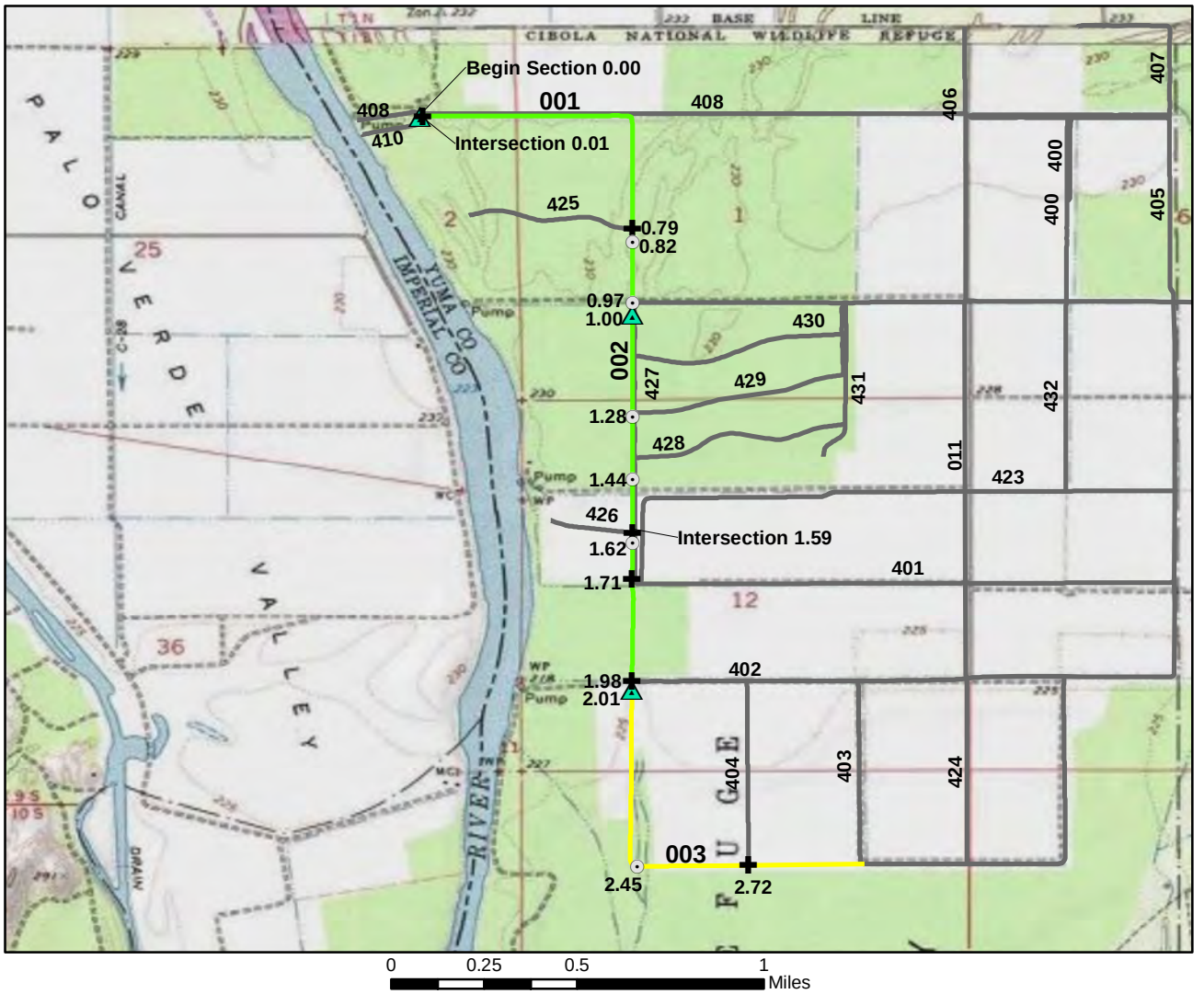
N

ROUTE: 408 Farm Unit 1 North Access Road TOTAL LENGTH: 1.37 Miles

ASSET: 10009718

RTE DESCRIPTION: From Cottonwood Restoration Area Road (Route 406) to refuge bounday at Levee Road

Section Number	001	002			
Section Length (miles)	1.02	0.35			
Inspection Date	4/3/2008	4/3/2008			
Section Information					
Surface Type	Gravel	Gravel			
Number of Lanes	1	1			
Roadway Width (feet)	12	12			
Roadway Condition Information					
Condition	Excellent	Excellent			
Remaining Service Life (years)	8	8			
Cost Estimate	$0	$0			
CRV	$830000	$281900			



Excellent | Good | Fair | Poor | Failed

Bridge | Begin Section | Boat Ramp | Gate | Low Water Crossing | Fee Station | Culvert | Intersection | Political Boundary | Deficiency | Railroad Crossing | Turnout/Parking | Visitor Center | Problem Area

N

ROUTE: 409 Farm Unit 1 West Access Road TOTAL LENGTH: 3.00 Miles

ASSET: 10009718

RTE DESCRIPTION: From refuge boundary at Levee Road to Farm Unit 1 South Dike Access 1 (Route 403)

Section Number	001	002	003		
Section Length (miles)	1.00	1.00	0.99		
Inspection Date	4/3/2008	4/3/2008	4/3/2008		
Section Information					
Surface Type	Gravel	Native	Native		
Number of Lanes	1	1	1		
Roadway Width (feet)	12	12	10		
Roadway Condition Information					
Condition	Good	Good	Fair		
Remaining Service Life (years)	7	7	3		
Cost Estimate	$1900	$2000	$2500		
CRV	$815100	$422600	$416600		

Excellent Good Fair Poor Failed

Bridge
Begin Section
Boat Ramp
Gate
Low Water Crossing
Fee Station
Culvert
Intersection
Political Boundary
Deficiency
Railroad Crossing
Turnout/Parking
Visitor Center
Problem Area

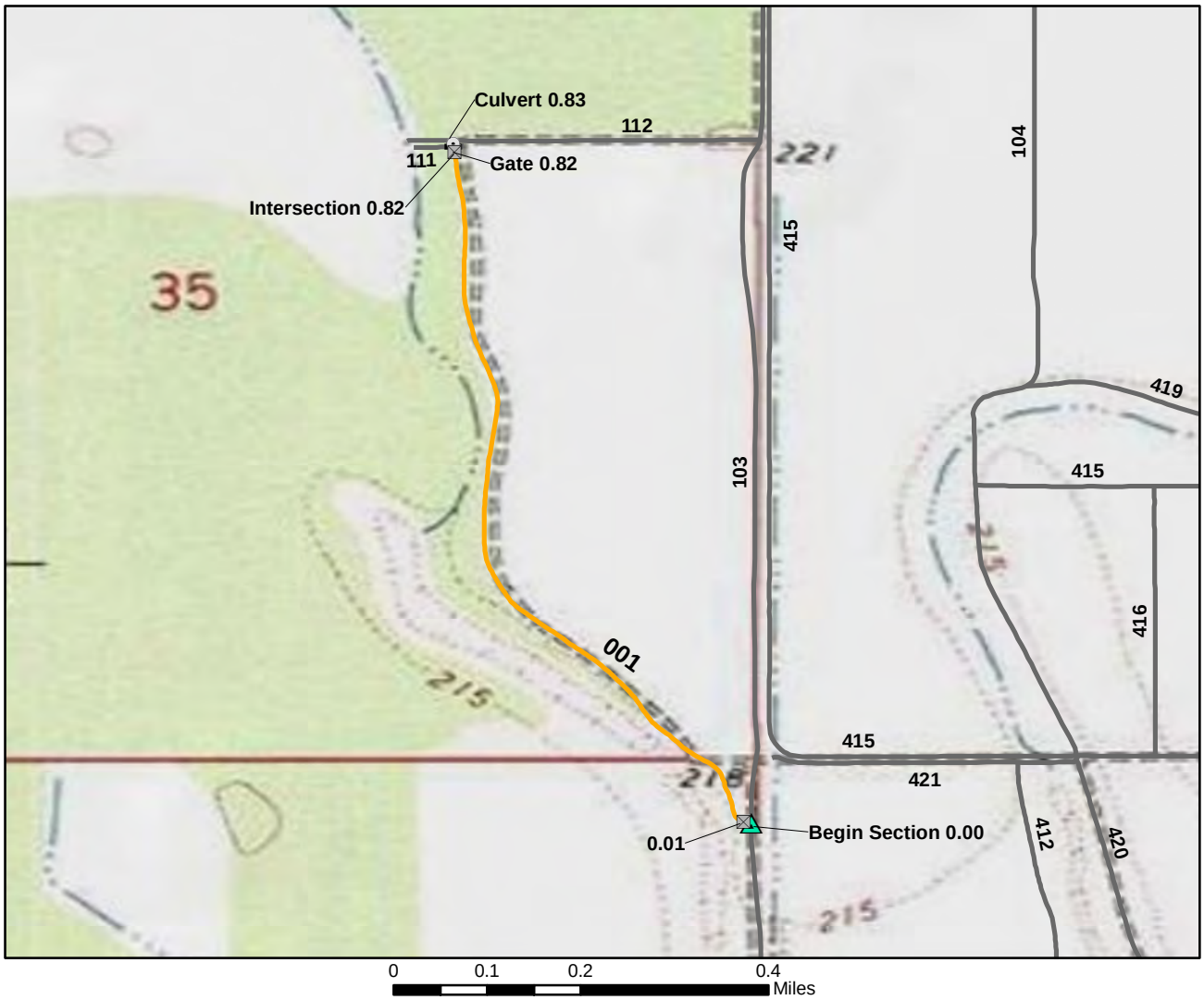
N

ROUTE: 410 Farm Unit 1 West Access Spur 1 TOTAL LENGTH: 0.15 Miles

ASSET: 10009718

RTE DESCRIPTION: From Farm Unit 1 West Access Road (Route 409) to refuge boundary at Levee Road

Section Number	001				
Section Length (miles)	0.15				
Inspection Date	4/3/2008				
Section Information					
Surface Type	Gravel				
Number of Lanes	1				
Roadway Width (feet)	12				
Roadway Condition Information					
Condition	Good				
Remaining Service Life (years)	7				
Cost Estimate	$300				
CRV	$125300				



Excellent | Good | Fair | Poor | Failed

N

Bridge | Gate | Culvert | Deficiency
Begin Section | Low Water Crossing | Intersection | Railroad Crossing | Visitor Center
Boat Ramp | Fee Station | Political Boundary | Turnout/Parking | Problem Area

ROUTE: 411 Island Unit Access Road 4 TOTAL LENGTH: 0.83 Miles

ASSET: 10009693

RTE DESCRIPTION: From Island Unit Public Access Road (Route 103) to Island Unit Boat Ramp Access Road (Route 112)

Section Number	001				
Section Length (miles)	0.83				
Inspection Date	4/4/2008				
Section Information					
Surface Type	Native				
Number of Lanes	1				
Roadway Width (feet)	10				
Roadway Condition Information					
Condition	Poor				
Remaining Service Life (years)	2				
Cost Estimate	$30700				
CRV	$349100				

Excellent Good Fair Poor Failed

N

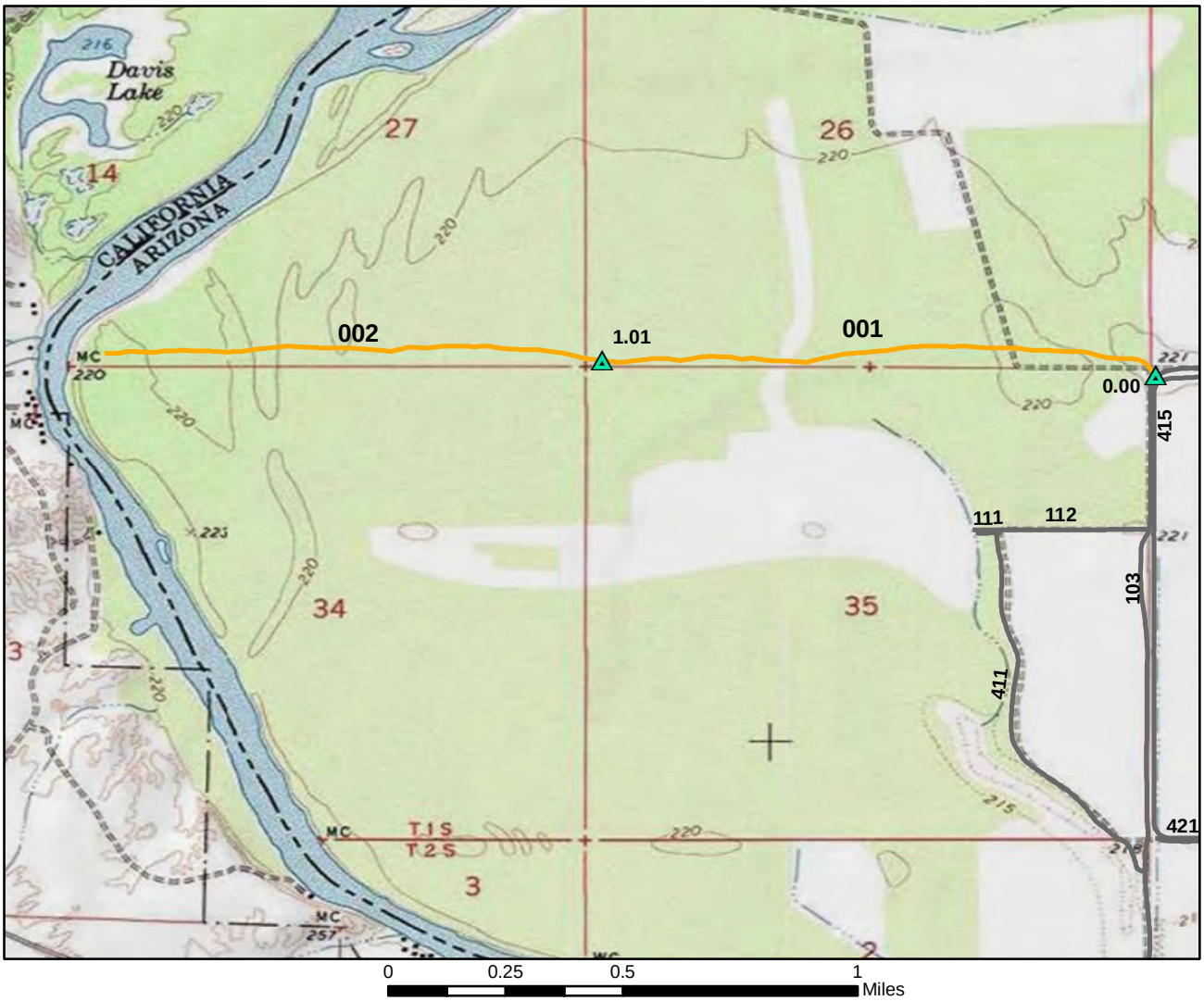
Bridge
Begin Section
Boat Ramp
Gate
Low Water Crossing
Fee Station
Culvert
Intersection
Political Boundary
Deficiency
Railroad Crossing
Turnout/Parking
Visitor Center
Problem Area

ROUTE: 412 Island Unit Access Road 5 TOTAL LENGTH: 0.53 Miles

ASSET: 10009693

RTE DESCRIPTION: From Island Unit Public Access Road (Route 103) to Island Unit Access Road 3 (Route 421)

Section Number	001				
Section Length (miles)	0.53				
Inspection Date	4/4/2008				
Section Information					
Surface Type	Native				
Number of Lanes	1				
Roadway Width (feet)	12				
Roadway Condition Information					
Condition	Poor				
Remaining Service Life (years)	2				
Cost Estimate	$19600				
CRV	$223100				



Excellent | Good | Fair | Poor | Failed

Bridge | Begin Section | Boat Ramp | Gate | Low Water Crossing | Fee Station | Culvert | Intersection | Political Boundary | Deficiency | Railroad Crossing | Turnout/Parking | Visitor Center | Problem Area

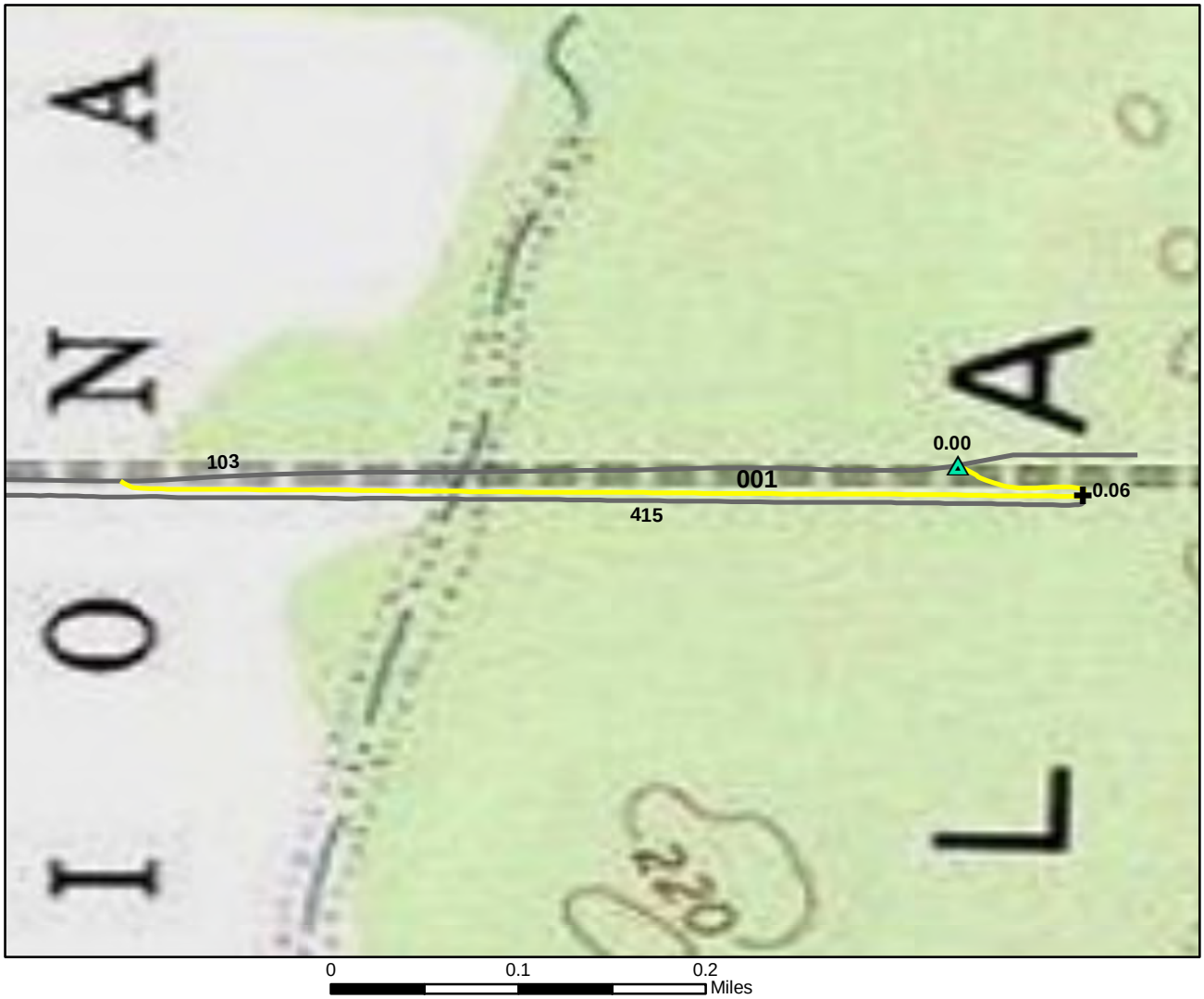
N

ROUTE: 413 Island Unit Fire Break Road TOTAL LENGTH: 1.91 Miles

ASSET: 10009720

RTE DESCRIPTION: From Island Unit Public Access Road (Route 103) to end of route

Section Number	001	002			
Section Length (miles)	1.01	0.90			
Inspection Date	4/3/2008	4/3/2008			
Section Information					
Surface Type	Native	Native			
Number of Lanes	1	1			
Roadway Width (feet)	14	14			
Roadway Condition Information					
Condition	Poor	Poor			
Remaining Service Life (years)	2	2			
Cost Estimate	$37400	$33100			
CRV	$425800	$376700			



Excellent | Good | Fair | Poor | Failed

Bridge | Begin Section | Boat Ramp | Gate | Low Water Crossing | Fee Station | Culvert | Intersection | Political Boundary | Deficiency | Railroad Crossing | Turnout/Parking | Visitor Center | Problem Area

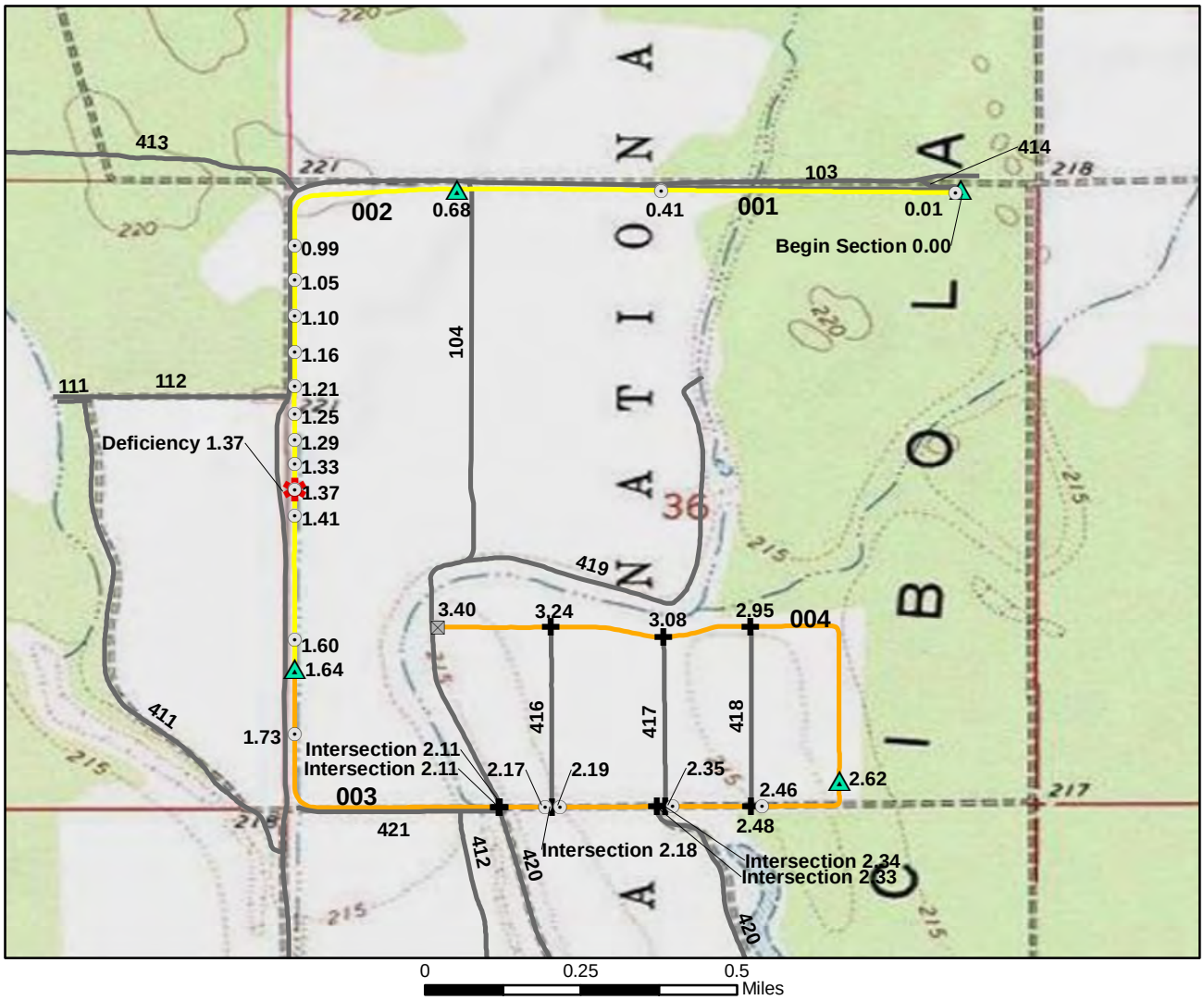
N

ROUTE: 414 Island Unit Access Road 1A TOTAL LENGTH: 0.49 Miles

ASSET: 10009720

RTE DESCRIPTION: From Island Unit Public Access Road (Route 103) (East) to Island Unit Public Access Road (Route 103) (West)

Section Number	001				
Section Length (miles)	0.49				
Inspection Date	4/4/2008				
Section Information					
Surface Type	Native				
Number of Lanes	1				
Roadway Width (feet)	10				
Roadway Condition Information					
Condition	Fair				
Remaining Service Life (years)	3				
Cost Estimate	$1300				
CRV	$207700				



Excellent | Good | Fair | Poor | Failed

Bridge | Gate | Culvert | Deficiency
Begin Section | Low Water Crossing | Intersection | Railroad Crossing | Visitor Center
Boat Ramp | Fee Station | Political Boundary | Turnout/Parking | Problem Area

N

ROUTE: 415 Island Unit Access Road 1 TOTAL LENGTH: 3.41 Miles

ASSET: 10009720

RTE DESCRIPTION: From Island Unit Access Road 1A (Route 414) to Island Unit Middle Road (Route 104)

Section Number	001	002	003	004	
Section Length (miles)	0.68	0.96	0.97	0.79	
Inspection Date	4/4/2008	4/4/2008	4/4/2008	4/4/2008	
Section Information					
Surface Type	Native	Native	Native	Native	
Number of Lanes	1	1	1	1	
Roadway Width (feet)	10	14	14	14	
Roadway Condition Information					
Condition	Fair	Fair	Poor	Poor	
Remaining Service Life (years)	3	3	2	2	
Cost Estimate	$1700	$2400	$36000	$29300	
CRV	$285800	$404300	$409500	$333200	

Excellent | Good | Fair | Poor | Failed

Bridge | Gate | Culvert | Deficiency
Begin Section | Low Water Crossing | Intersection | Railroad Crossing | Visitor Center
Boat Ramp | Fee Station | Political Boundary | Turnout/Parking | Problem Area

N

ROUTE: 416 Island Unit Central Pond Access 1 TOTAL LENGTH: 0.29 Miles

ASSET: 10009720

RTE DESCRIPTION: From Island Unit Access Road 1 (Route 415) (Section 003) to Island Unit Access Road (Route 415) (Section 004)

Section Number	001				
Section Length (miles)	0.29				
Inspection Date	4/4/2008				
Section Information					
Surface Type	Native				
Number of Lanes	1				
Roadway Width (feet)	10				
Roadway Condition Information					
Condition	Poor				
Remaining Service Life (years)	2				
Cost Estimate	$10600				
CRV	$120700				

Excellent | Good | Fair | Poor | Failed

Bridge | Gate | Culvert | Deficiency
Begin Section | Low Water Crossing | Intersection | Railroad Crossing | Visitor Center
Boat Ramp | Fee Station | Political Boundary | Turnout/Parking | Problem Area

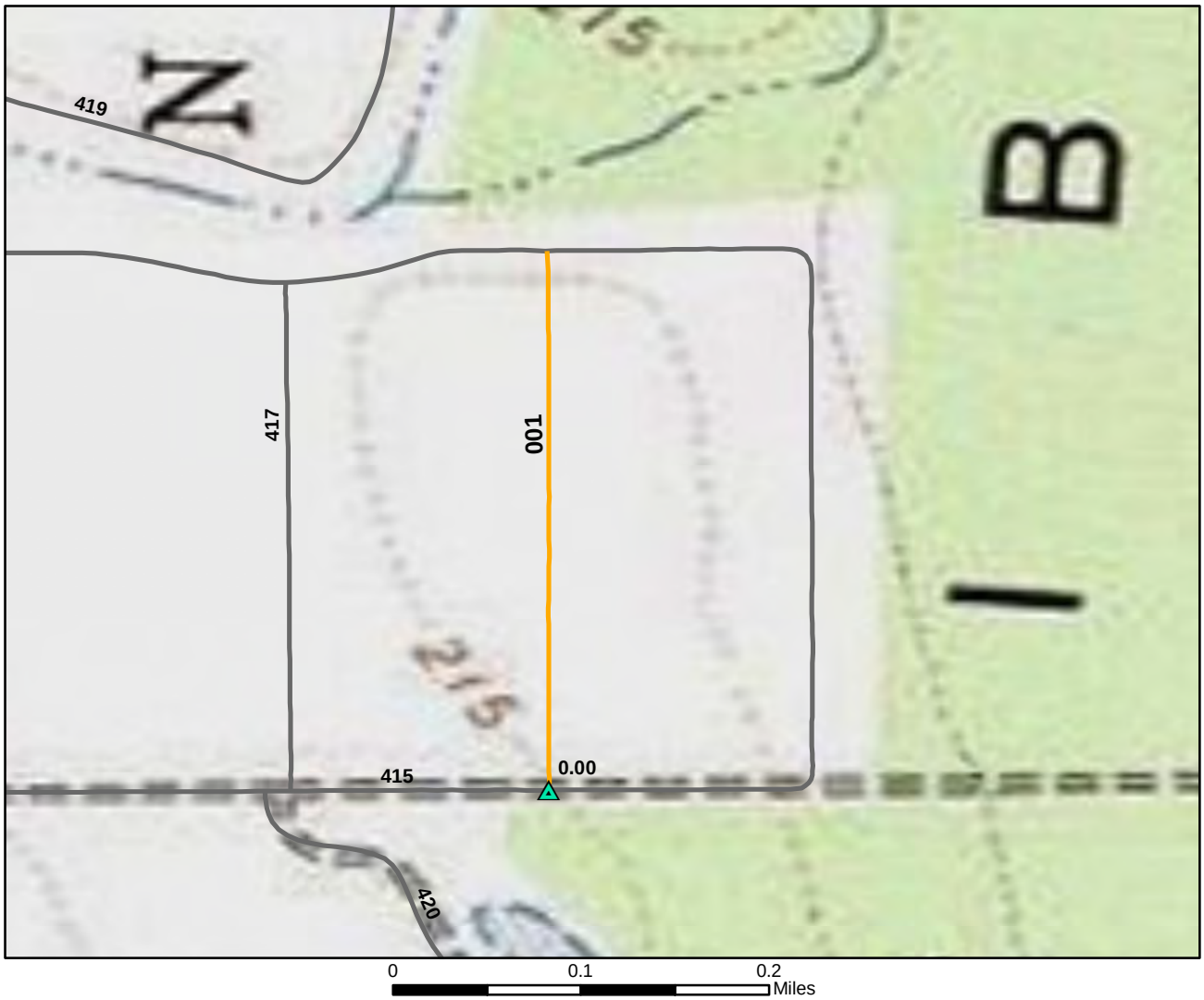
N

ROUTE: 417 Island Unit Central Pond Access 2 TOTAL LENGTH: 0.27 Miles

ASSET: 10009720

RTE DESCRIPTION: From Island Unit Access Road 1 (Route 415) (Section 003) to Island Unit Access Road (Route 415) (Section 004)

Section Number	001				
Section Length (miles)	0.27				
Inspection Date	4/4/2008				
Section Information					
Surface Type	Native				
Number of Lanes	1				
Roadway Width (feet)	10				
Roadway Condition Information					
Condition	Poor				
Remaining Service Life (years)	2				
Cost Estimate	$10000				
CRV	$113700				



Excellent | Good | Fair | Poor | Failed

Bridge | Begin Section | Boat Ramp | Gate | Low Water Crossing | Fee Station | Culvert | Intersection | Political Boundary | Deficiency | Railroad Crossing | Turnout/Parking | Visitor Center | Problem Area

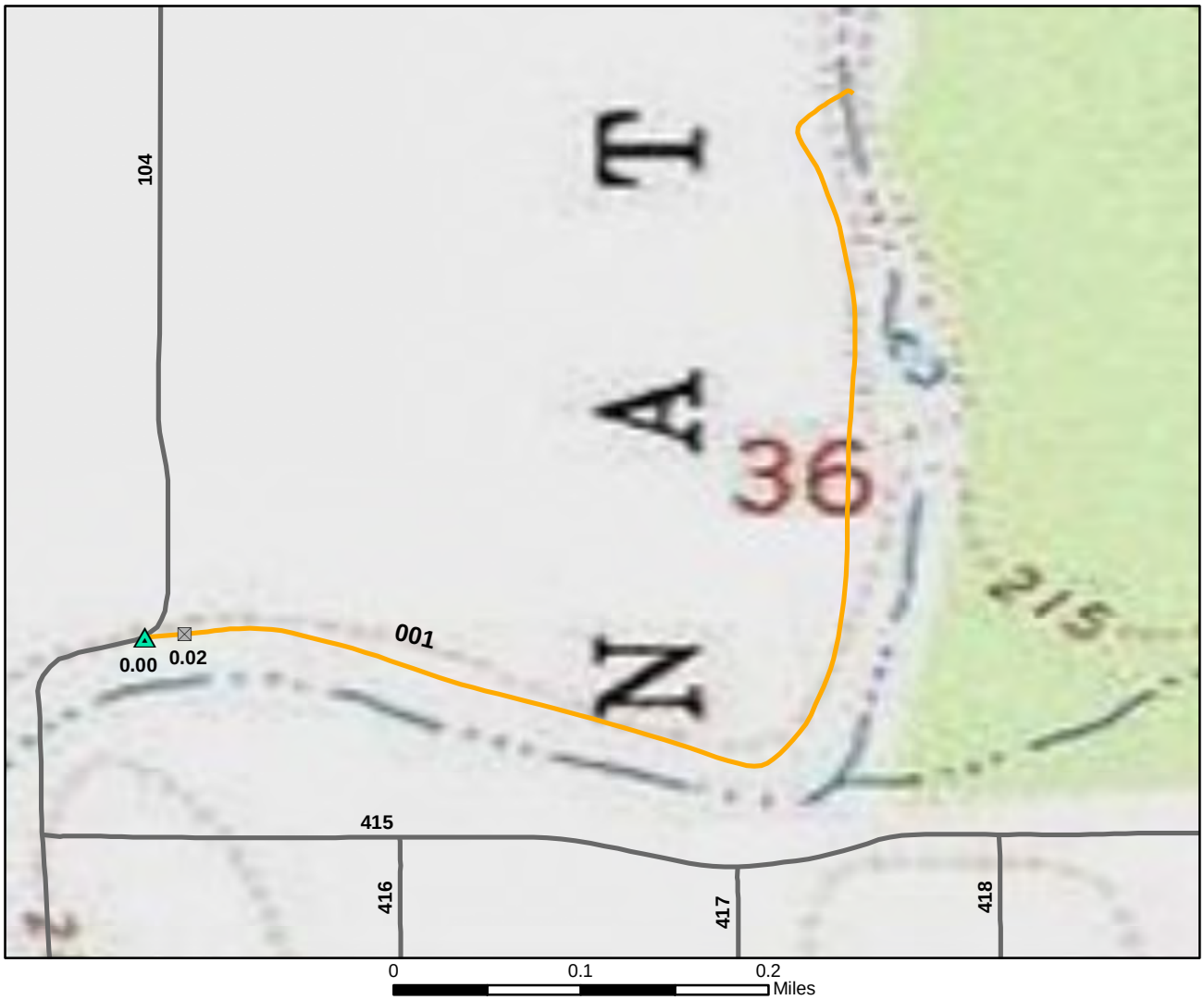
N

ROUTE: 418 Island Unit Central Pond Access 3 TOTAL LENGTH: 0.29 Miles

ASSET: 10009720

RTE DESCRIPTION: From Island Unit Access Road 1 (Route 415) (Section 003) to Island Unit Access Road (Route 415) (Section 004)

Section Number	001				
Section Length (miles)	0.29				
Inspection Date	4/4/2008				
Section Information					
Surface Type	Native				
Number of Lanes	1				
Roadway Width (feet)	10				
Roadway Condition Information					
Condition	Poor				
Remaining Service Life (years)	2				
Cost Estimate	$10600				
CRV	$120600				



Excellent | Good | Fair | Poor | Failed

Bridge | Begin Section | Boat Ramp | Gate | Low Water Crossing | Fee Station | Culvert | Intersection | Political Boundary | Deficiency | Railroad Crossing | Turnout/Parking | Visitor Center | Problem Area

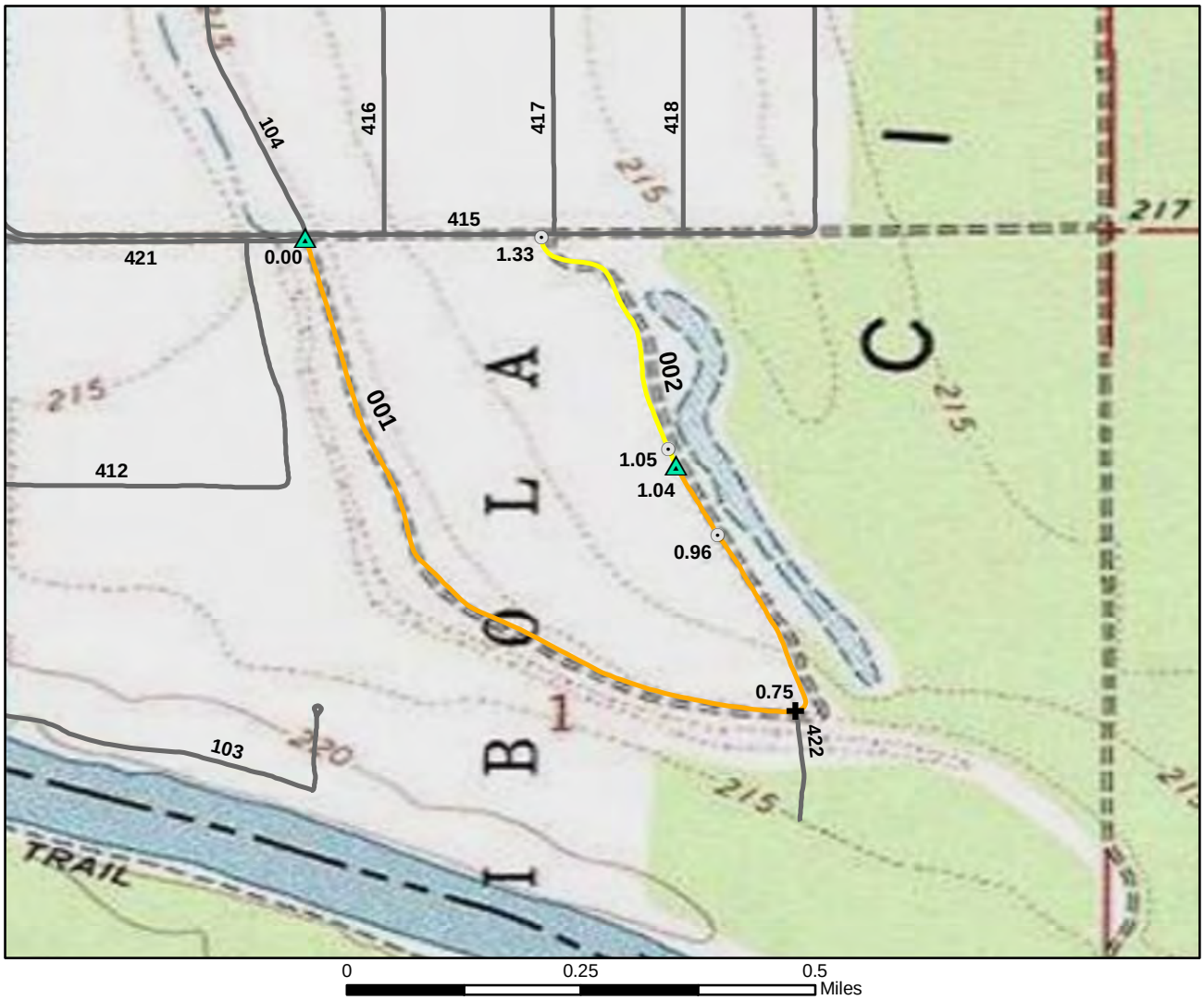
N

ROUTE: 419 Island Unit Access Road 2 TOTAL LENGTH: 0.68 Miles

ASSET: 10009720

RTE DESCRIPTION: From Island Unit Middle Road (Route 104) to end of route

Section Number	001				
Section Length (miles)	0.68				
Inspection Date	4/4/2008				
Section Information					
Surface Type	Native				
Number of Lanes	1				
Roadway Width (feet)	10				
Roadway Condition Information					
Condition	Poor				
Remaining Service Life (years)	2				
Cost Estimate	$24900				
CRV	$283900				



Excellent | Good | Fair | Poor | Failed

Bridge | Gate | Culvert | Deficiency
Begin Section | Low Water Crossing | Intersection | Railroad Crossing | Visitor Center
Boat Ramp | Fee Station | Political Boundary | Turnout/Parking | Problem Area

N

ROUTE: 420 Island Unit Southeast Access Loop TOTAL LENGTH: 1.33 Miles

ASSET: 10009720

RTE DESCRIPTION: From Island Unit Access Road 3 (Route 421) to Island Unit Access Road 1 (Route 415)

Section Number	001	002			
Section Length (miles)	1.04	0.30			
Inspection Date	4/4/2008	4/4/2008			
Section Information					
Surface Type	Native	Native			
Number of Lanes	1	1			
Roadway Width (feet)	10	10			
Roadway Condition Information					
Condition	Poor	Fair			
Remaining Service Life (years)	2	3			
Cost Estimate	$38200	$800			
CRV	$435400	$124300			

Excellent | Good | Fair | Poor | Failed

Bridge | Begin Section | Boat Ramp | Gate | Low Water Crossing | Fee Station | Culvert | Intersection | Political Boundary | Deficiency | Railroad Crossing | Turnout/Parking | Visitor Center | Problem Area

N

ROUTE: 421 Island Unit Access Road 3 TOTAL LENGTH: 0.28 Miles

ASSET: 10009720

RTE DESCRIPTION: From Island Unit Access Road 1 (Route 415) to end of route

Section Number	001				
Section Length (miles)	0.28				
Inspection Date	4/4/2008				
Section Information					
Surface Type	Native				
Number of Lanes	1				
Roadway Width (feet)	10				
Roadway Condition Information					
Condition	Fair				
Remaining Service Life (years)	3				
Cost Estimate	$700				
CRV	$116800				

Excellent | Good | Fair | Poor | Failed

Bridge | Begin Section | Boat Ramp | Gate | Low Water Crossing | Fee Station | Culvert | Intersection | Political Boundary | Deficiency | Railroad Crossing | Turnout/Parking | Visitor Center | Problem Area

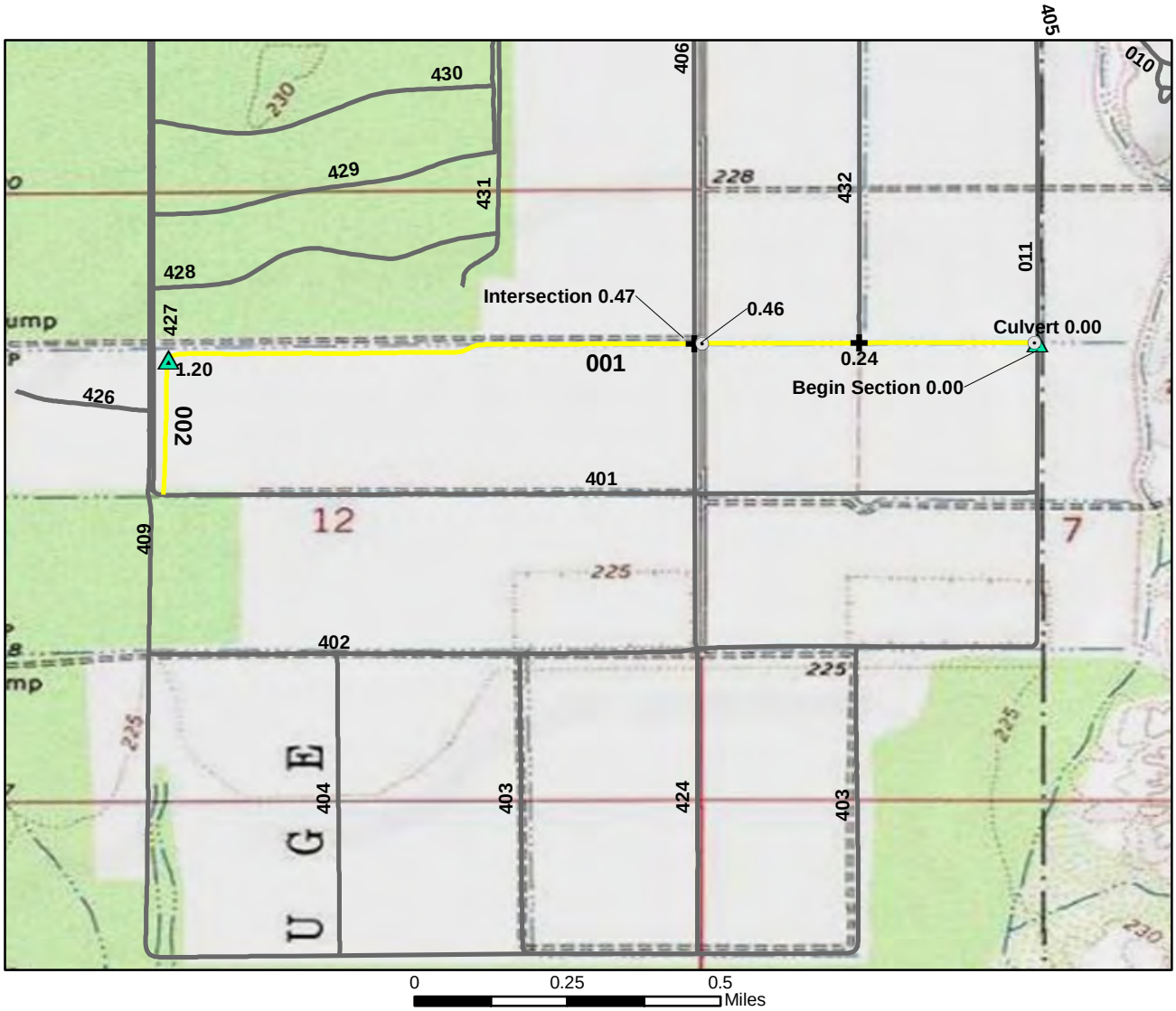
N

ROUTE: 422 Island Unit Southeast Access Loop Spur TOTAL LENGTH: 0.12 Miles

ASSET: 10009720

RTE DESCRIPTION: From Island Unit Southeast Access Loop (Route 420) to end of route

Section Number	001				
Section Length (miles)	0.12				
Inspection Date	4/4/2008				
Section Information					
Surface Type	Native				
Number of Lanes	1				
Roadway Width (feet)	10				
Roadway Condition Information					
Condition	Poor				
Remaining Service Life (years)	2				
Cost Estimate	$4400				
CRV	$49600				



Excellent | Good | Fair | Poor | Failed

N

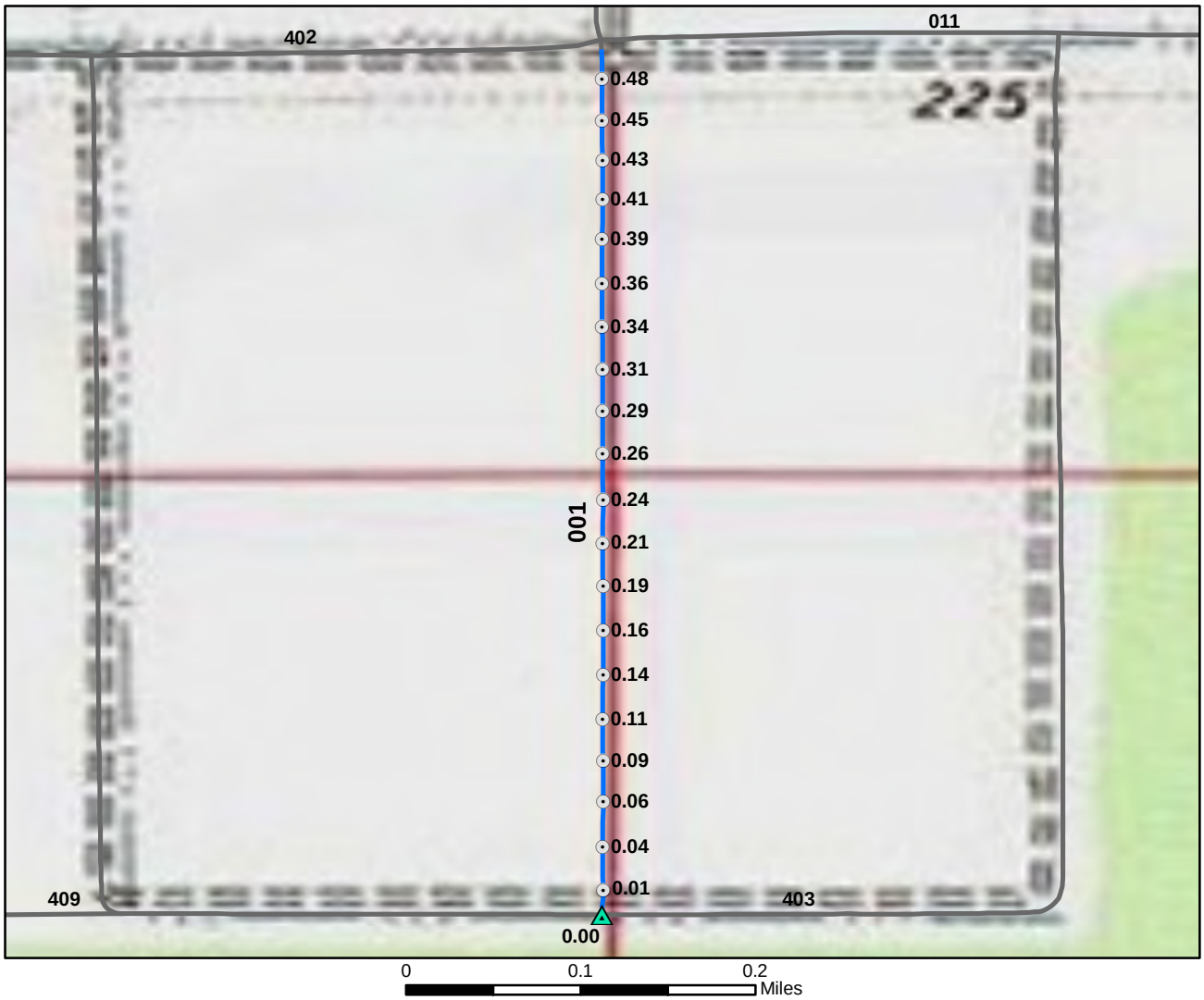
Bridge | Gate | Culvert | Deficiency
Begin Section | Low Water Crossing | Intersection | Railroad Crossing | Visitor Center
Boat Ramp | Fee Station | Political Boundary | Turnout/Parking | Problem Area

ROUTE: 423 Farm Unit 1 Access Road 3 TOTAL LENGTH: 1.42 Miles

ASSET:

RTE DESCRIPTION: From Auto Tour Loop Road (Route 011) to Farm Unit 1 Access Road 1 (Route 401)

Section Number	001	002			
Section Length (miles)	1.20	0.22			
Inspection Date	4/3/2008	4/3/2008			
Section Information					
Surface Type	Native	Native			
Number of Lanes	1	1			
Roadway Width (feet)	12	12			
Roadway Condition Information					
Condition	Fair	Fair			
Remaining Service Life (years)	3	3			
Cost Estimate	$3000	$600			
CRV	$503100	$93300			



Excellent Good Fair Poor Failed

Bridge
Begin Section
Boat Ramp
Gate
Low Water Crossing
Fee Station
Culvert
Intersection
Political Boundary
Deficiency
Railroad Crossing
Turnout/Parking
Visitor Center
Problem Area

N

ROUTE: 424 Farm Unit 1 South Dike Access 1A TOTAL LENGTH: 0.49 Miles

ASSET:

RTE DESCRIPTION: From UInit 1 Access Road 2 (Route 402) to Farm Unit 1 South Dike Access Road 1 (Route 403)

Section Number	001				
Section Length (miles)	0.49				
Inspection Date	4/3/2008				
Section Information					
Surface Type	Gravel				
Number of Lanes	1				
Roadway Width (feet)	10				
Roadway Condition Information					
Condition	Excellent				
Remaining Service Life (years)	8				
Cost Estimate	$0				
CRV	$401200				

Excellent | Good | Fair | Poor | Failed

Bridge | Begin Section | Boat Ramp | Gate | Low Water Crossing | Fee Station | Culvert | Intersection | Political Boundary | Deficiency | Railroad Crossing | Turnout/Parking | Visitor Center | Problem Area

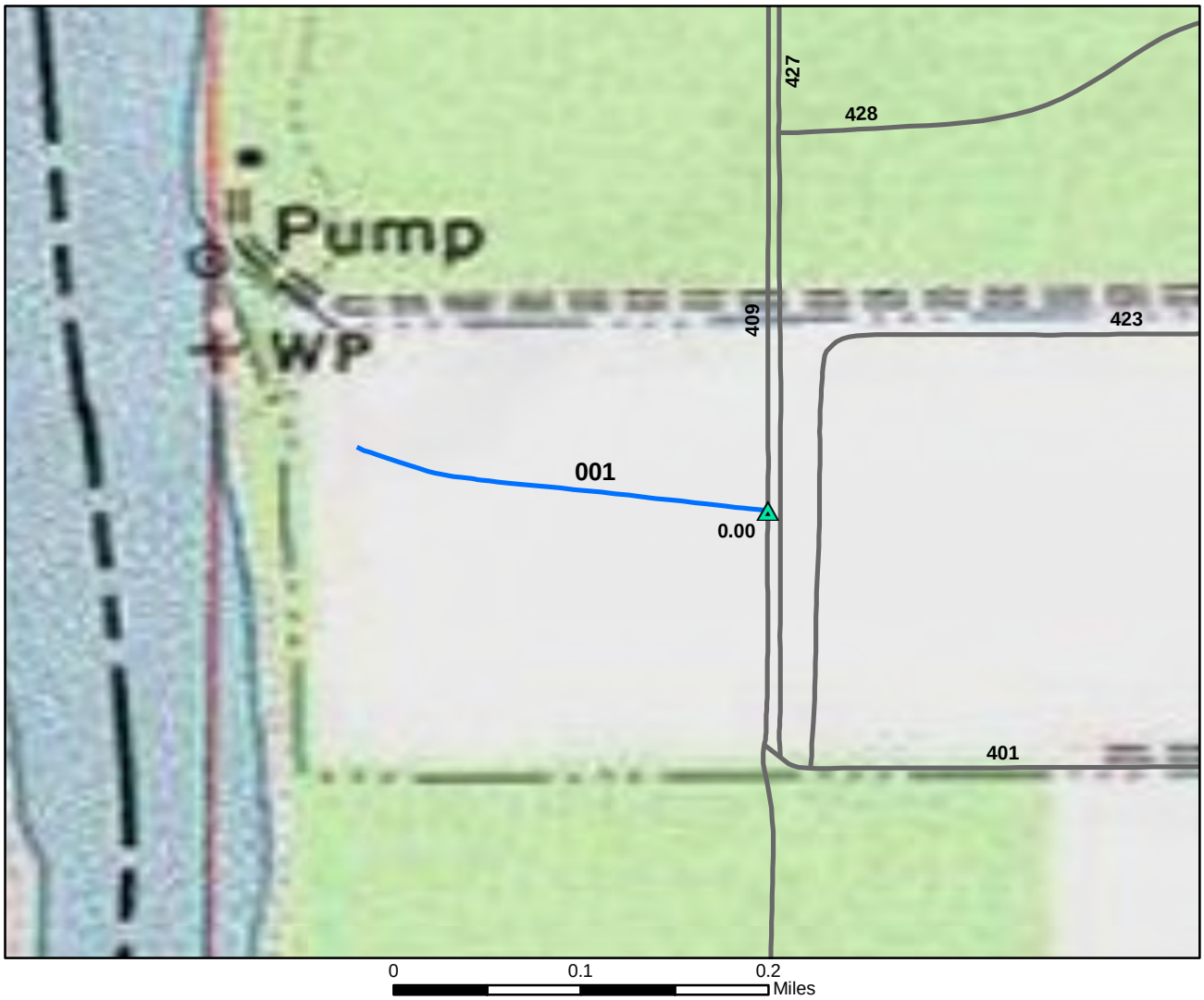
N

ROUTE: 425 Farm Unit 1 West Access Spur 2 TOTAL LENGTH: 0.38 Miles

ASSET:

RTE DESCRIPTION: From Farm Unit 1 West Access Road (Route 409) to end of route

Section Number	001				
Section Length (miles)	0.38				
Inspection Date	4/3/2008				
Section Information					
Surface Type	Gravel				
Number of Lanes	1				
Roadway Width (feet)	12				
Roadway Condition Information					
Condition	Excellent				
Remaining Service Life (years)	8				
Cost Estimate	$0				
CRV	$308400				



Excellent | Good | Fair | Poor | Failed

Bridge | Gate | Culvert | Deficiency
Begin Section | Low Water Crossing | Intersection | Railroad Crossing | Visitor Center
Boat Ramp | Fee Station | Political Boundary | Turnout/Parking | Problem Area

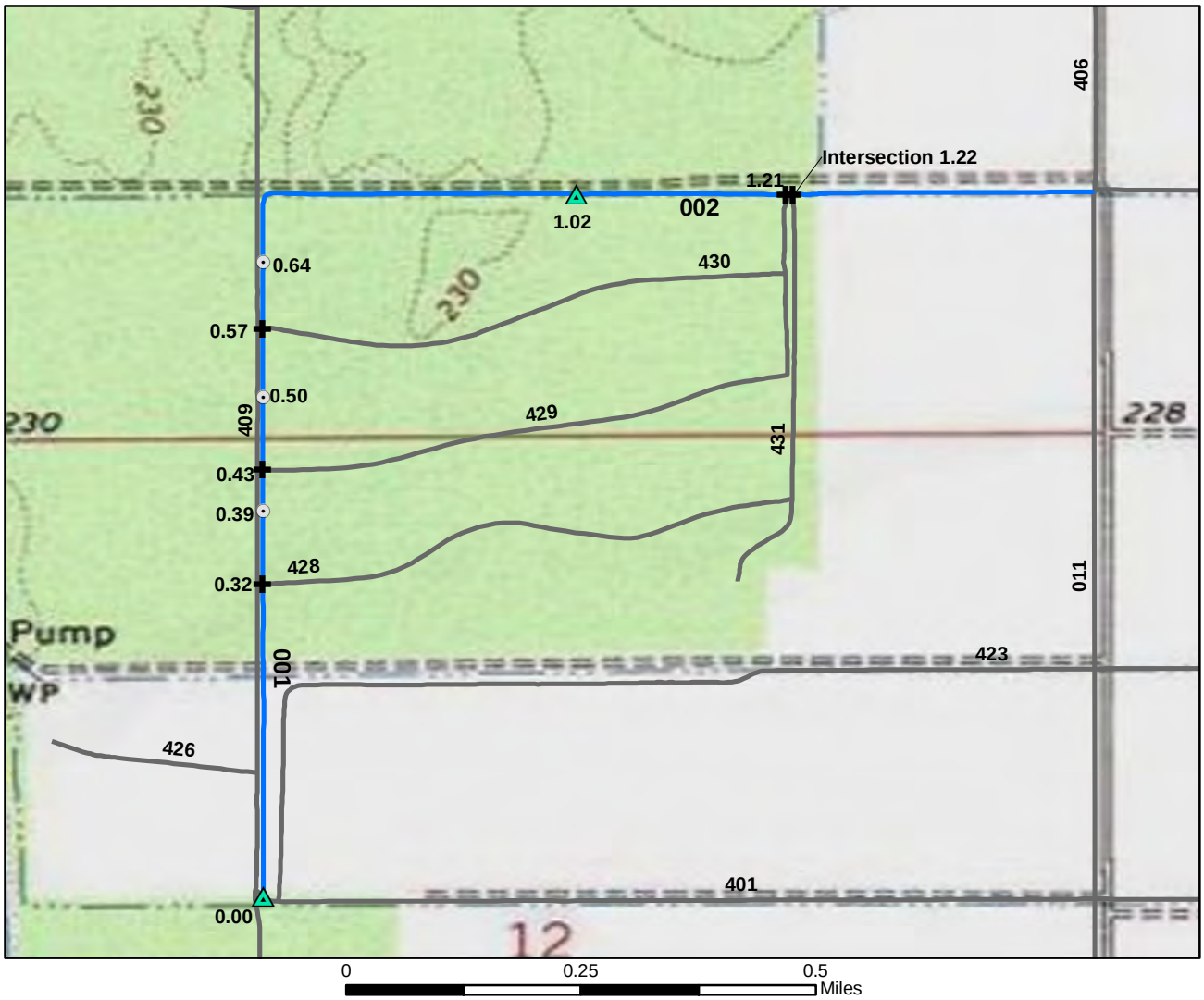
N

ROUTE: 426 Farm Unit 1 West Access Spur 3 TOTAL LENGTH: 0.19 Miles

ASSET:

RTE DESCRIPTION: From Farm Unit 1 West Access Road (Route 409) to end of route

Section Number	001				
Section Length (miles)	0.19				
Inspection Date	4/3/2008				
Section Information					
Surface Type	Native				
Number of Lanes	1				
Roadway Width (feet)	12				
Roadway Condition Information					
Condition	Fair				
Remaining Service Life (years)	3				
Cost Estimate	$500				
CRV	$78800				



Excellent Good Fair Poor Failed

Bridge
Begin Section
Boat Ramp
Gate
Low Water Crossing
Fee Station
Culvert
Intersection
Political Boundary
Deficiency
Railroad Crossing
Turnout/Parking
Visitor Center
Problem Area

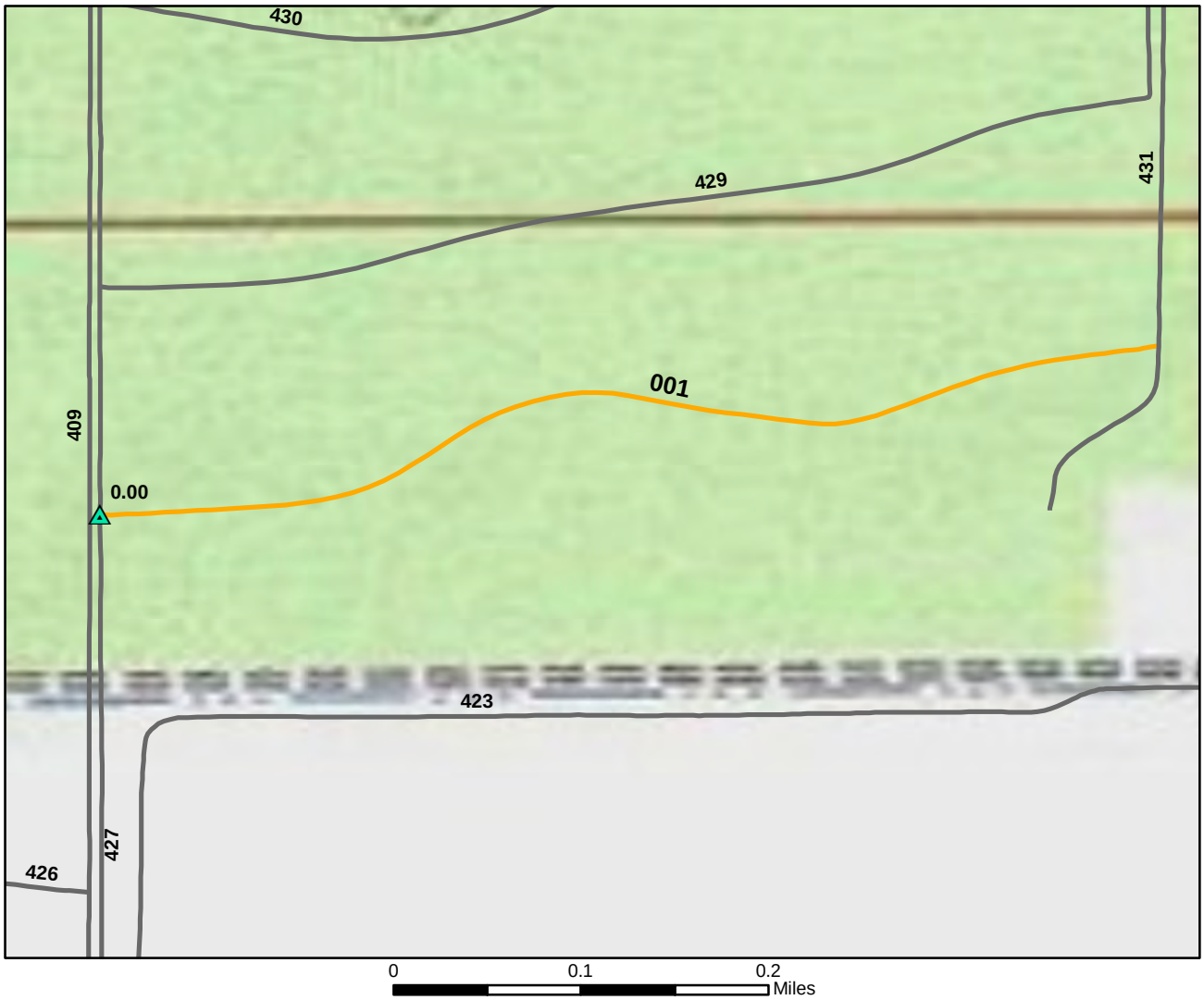
N

ROUTE: 427 Farm Unit 1 Access Road 4 TOTAL LENGTH: 1.49 Miles

ASSET: 10009718

RTE DESCRIPTION: From Farm Unit 1Access Road 1 (Route 401) to Auto Tour Loop Road (Route 011)

Section Number	001	002			
Section Length (miles)	1.02	0.46			
Inspection Date	4/3/2008	4/3/2008			
Section Information					
Surface Type	Gravel	Gravel			
Number of Lanes	1	1			
Roadway Width (feet)	12	14			
Roadway Condition Information					
Condition	Excellent	Excellent			
Remaining Service Life (years)	8	8			
Cost Estimate	$0	$0			
CRV	$832400	$375600			



Excellent | Good | Fair | Poor | Failed

Bridge | Begin Section | Boat Ramp | Gate | Low Water Crossing | Fee Station | Culvert | Intersection | Political Boundary | Deficiency | Railroad Crossing | Turnout/Parking | Visitor Center | Problem Area

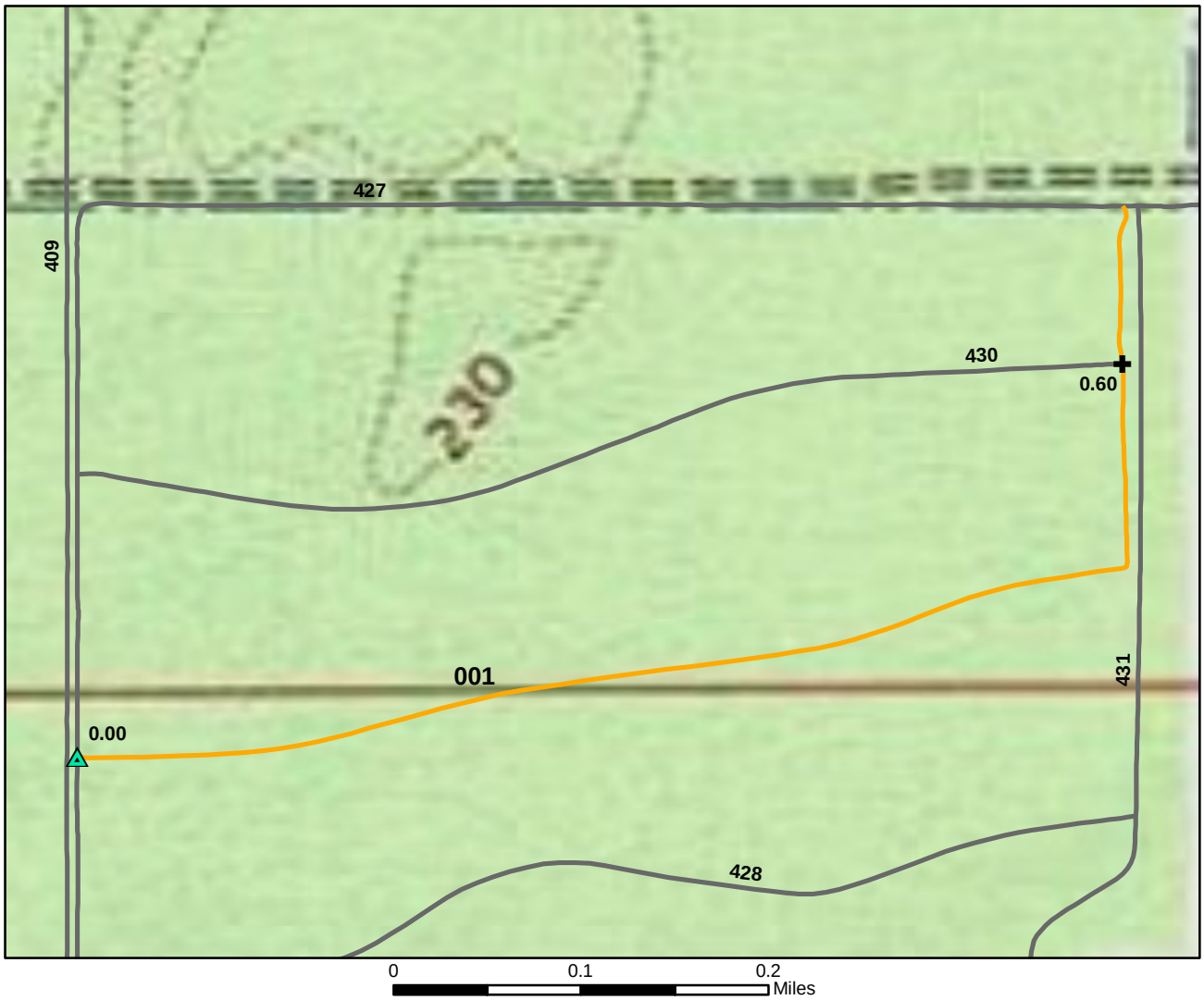
N

ROUTE: 428 Farm Unit 1 Access Road 5 TOTAL LENGTH: 0.50 Miles

ASSET:

RTE DESCRIPTION: From Farm Unit 1Access Road 4 (Route 427) to Farm Unit 1 Access Road 8 (Route 431)

Section Number	001				
Section Length (miles)	0.50				
Inspection Date	4/3/2008				
Section Information					
Surface Type	Native				
Number of Lanes	1				
Roadway Width (feet)	10				
Roadway Condition Information					
Condition	Poor				
Remaining Service Life (years)	2				
Cost Estimate	$18300				
CRV	$208700				



Excellent | Good | Fair | Poor | Failed

Bridge | Begin Section | Boat Ramp | Gate | Low Water Crossing | Fee Station | Culvert | Intersection | Political Boundary | Deficiency | Railroad Crossing | Turnout/Parking | Visitor Center | Problem Area

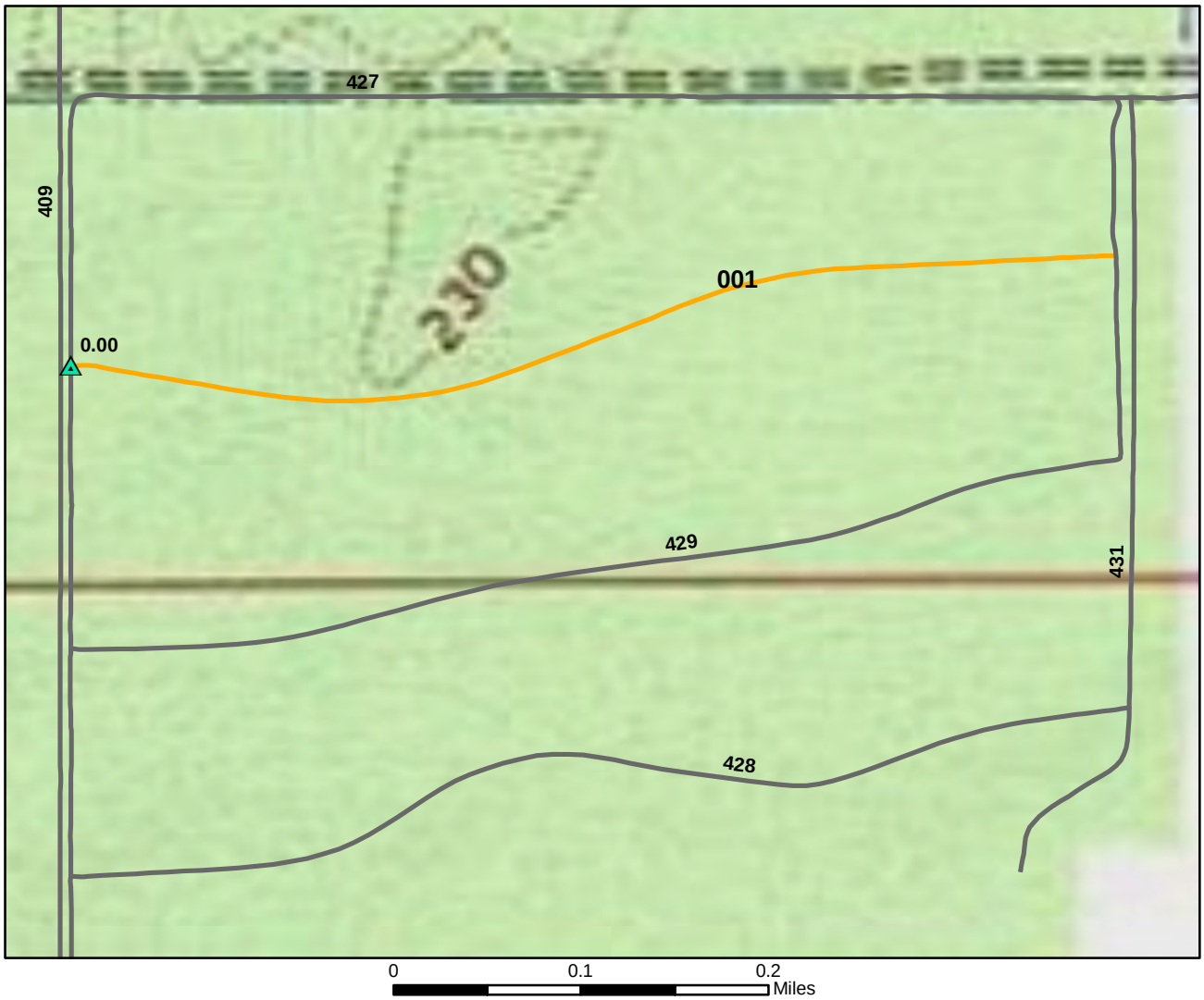
N

ROUTE: 429 Farm Unit 1 Access Road 6 TOTAL LENGTH: 0.68 Miles

ASSET:

RTE DESCRIPTION: From Farm Unit 1 Access Road 4 (Route 401 Section 001) to Farm Unit 1 Access Road 4 (Route 401 Section 002)

Section Number	001				
Section Length (miles)	0.68				
Inspection Date	4/3/2008				
Section Information					
Surface Type	Native				
Number of Lanes	1				
Roadway Width (feet)	10				
Roadway Condition Information					
Condition	Poor				
Remaining Service Life (years)	2				
Cost Estimate	$24900				
CRV	$283800				



Excellent | Good | Fair | Poor | Failed

Bridge | Begin Section | Boat Ramp | Gate | Low Water Crossing | Fee Station | Culvert | Intersection | Political Boundary | Deficiency | Railroad Crossing | Turnout/Parking | Visitor Center | Problem Area

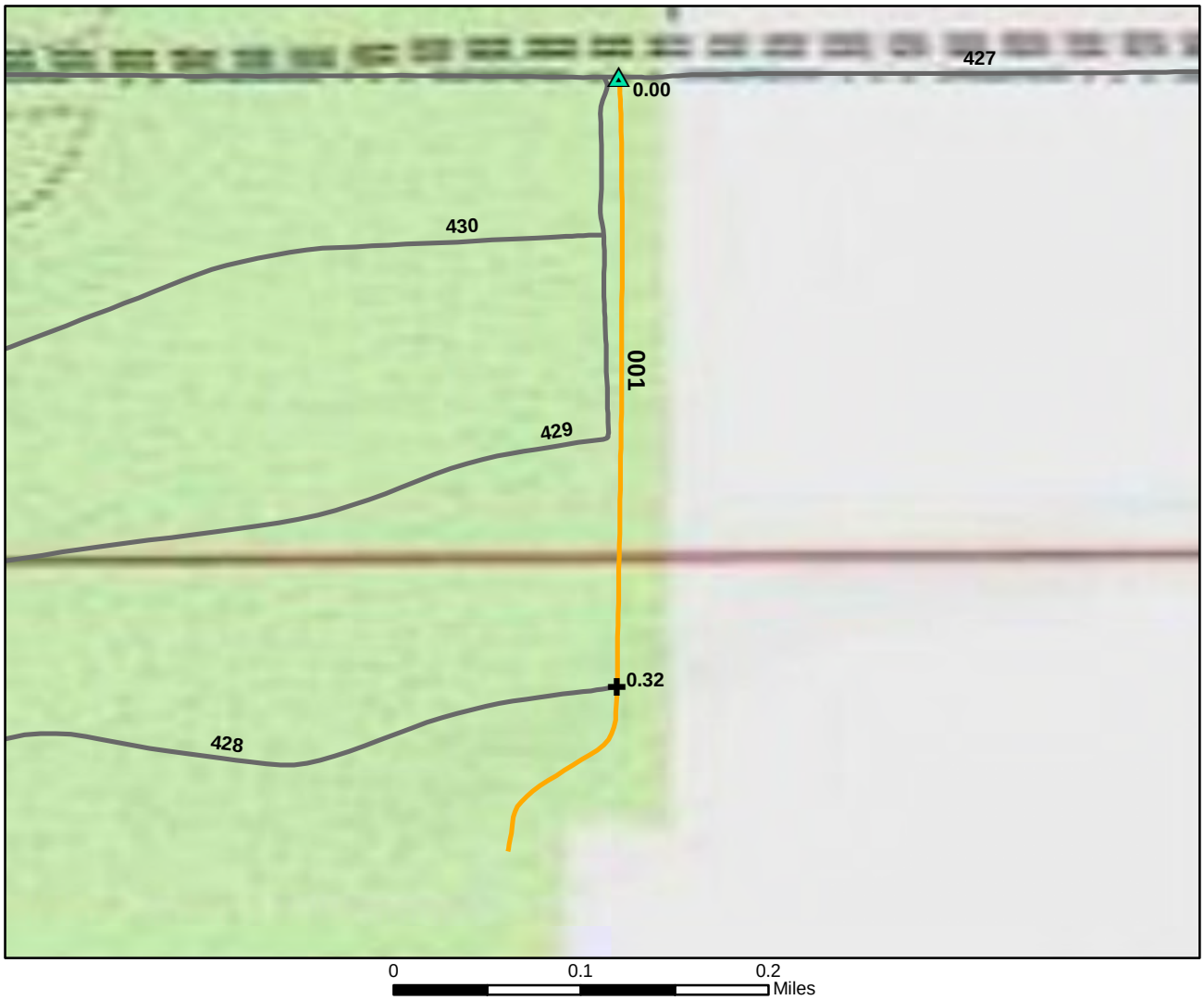
N

ROUTE: 430 Farm Unit 1 Access Road 7 TOTAL LENGTH: 0.48 Miles

ASSET:

RTE DESCRIPTION: From Farm Unit 1 Access Road 4 (Route 427) to Farm Unit 1 Access Road 6 (Route 429)

Section Number	001				
Section Length (miles)	0.48				
Inspection Date	4/3/2008				
Section Information					
Surface Type	Native				
Number of Lanes	1				
Roadway Width (feet)	10				
Roadway Condition Information					
Condition	Poor				
Remaining Service Life (years)	2				
Cost Estimate	$17800				
CRV	$202400				



Excellent | Good | Fair | Poor | Failed

Bridge | Gate | Culvert | Deficiency
Begin Section | Low Water Crossing | Intersection | Railroad Crossing | Visitor Center
Boat Ramp | Fee Station | Political Boundary | Turnout/Parking | Problem Area

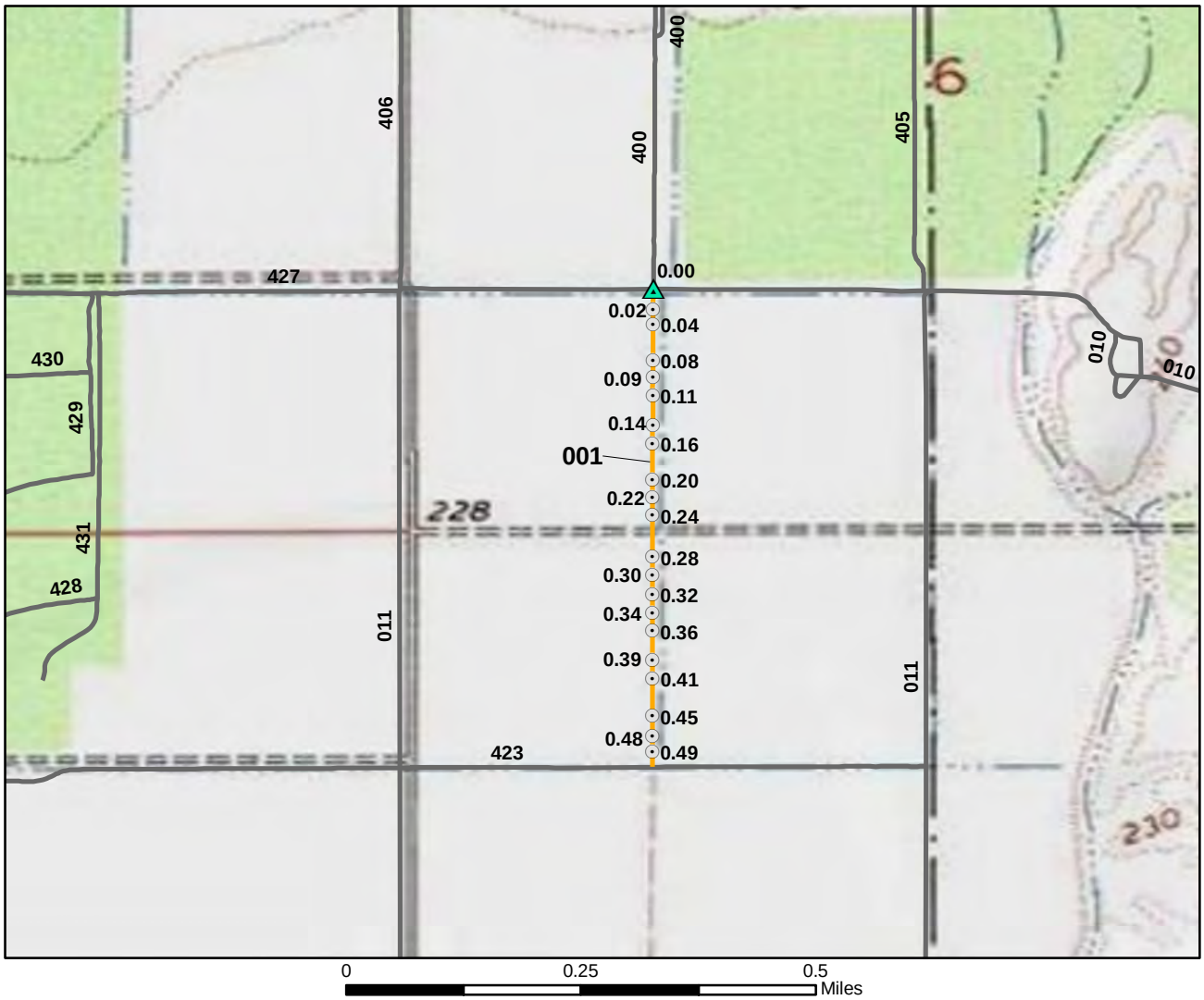
N

ROUTE: 431 Farm Unit 1 Access Road 8 TOTAL LENGTH: 0.43 Miles

ASSET:

RTE DESCRIPTION: From Farm Unit 1 Access Road 4 (Route 427) to end of route

Section Number	001				
Section Length (miles)	0.43				
Inspection Date	4/3/2008				
Section Information					
Surface Type	Native				
Number of Lanes	1				
Roadway Width (feet)	10				
Roadway Condition Information					
Condition	Poor				
Remaining Service Life (years)	2				
Cost Estimate	$15900				
CRV	$181600				



Excellent | Good | Fair | Poor | Failed

N

Bridge | Gate | Culvert | Deficiency
Begin Section | Low Water Crossing | Intersection | Railroad Crossing | Visitor Center
Boat Ramp | Fee Station | Political Boundary | Turnout/Parking | Problem Area

ROUTE: 432 South Long Pond Road TOTAL LENGTH: 0.51 Miles

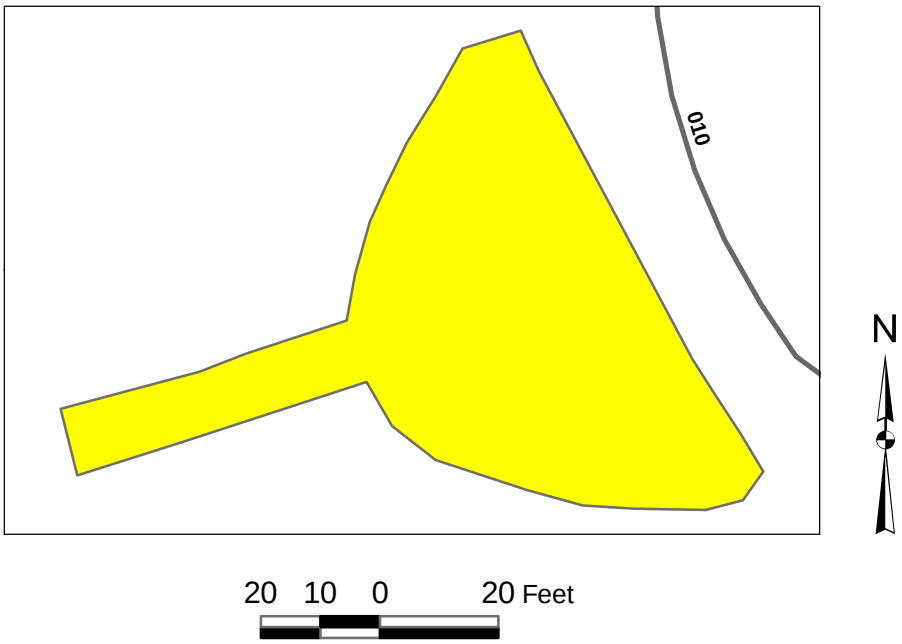
ASSET:

RTE DESCRIPTION: From Auto Tour Loop Road (Route 011) to Farm Unit 1 Access Road 3 (Route 423)

Section Number	001				
Section Length (miles)	0.51				
Inspection Date	4/3/2008				
Section Information					
Surface Type	Native				
Number of Lanes	1				
Roadway Width (feet)	10				
Roadway Condition Information					
Condition	Poor				
Remaining Service Life (years)	2				
Cost Estimate	$18800				
CRV	$213800				

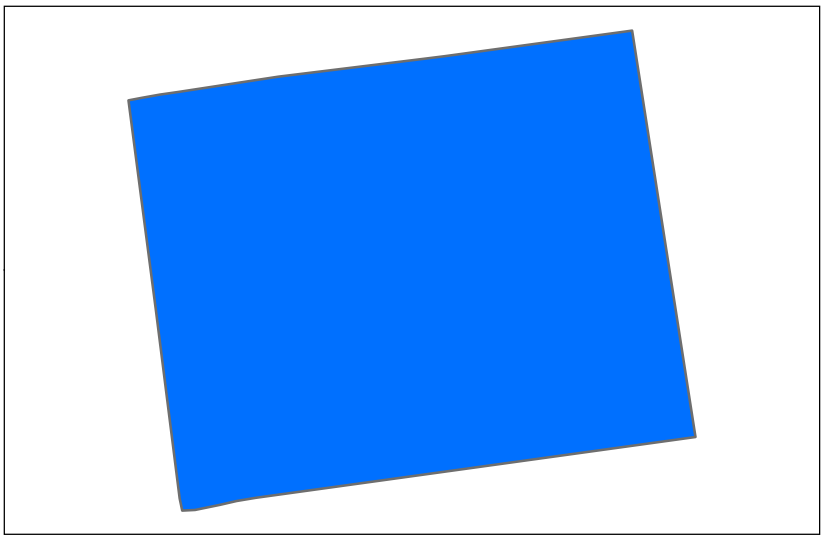
Route 800: Headquarters Employee Parking

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
	4/3/2008	Gravel	3163	Fair	$1000



Route 801: Island Unit Administration Equipment Parking

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
	4/4/2008	Gravel	45921	Excellent	$0

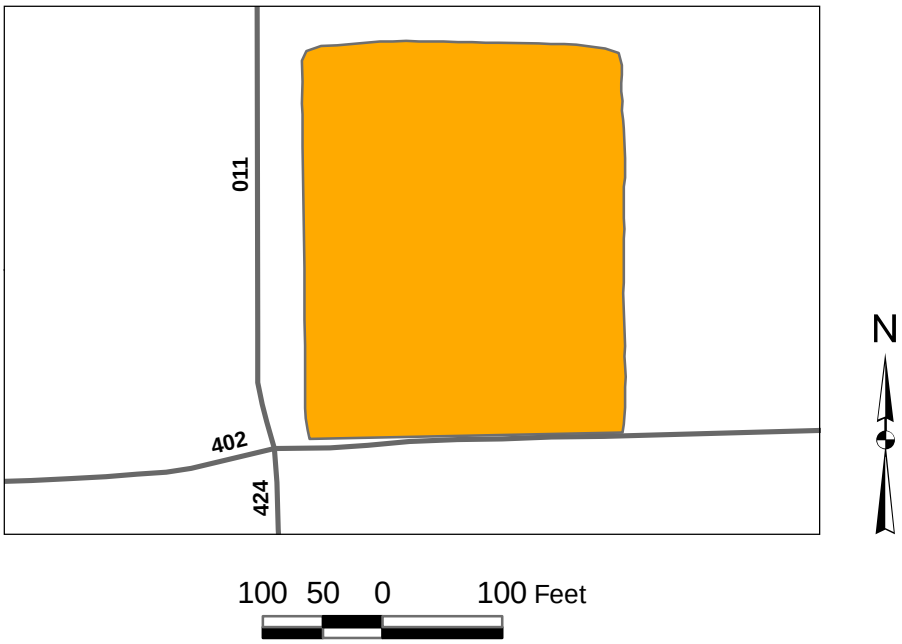


N

40 20 0 40 80 Feet

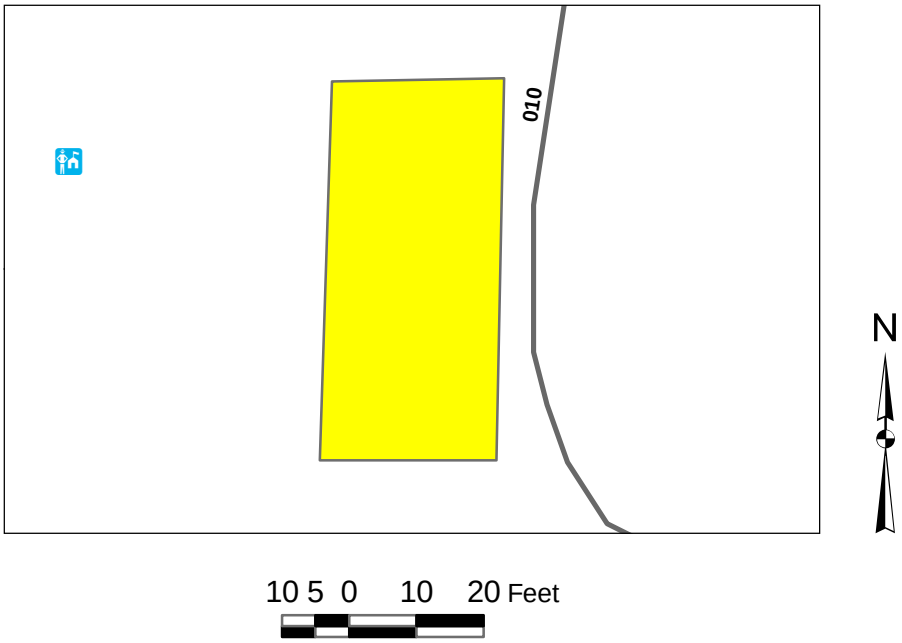
Route 802: Auto Tour Administrative Equipment Parking

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
	4/3/2008	Native	73637	Poor	$70500



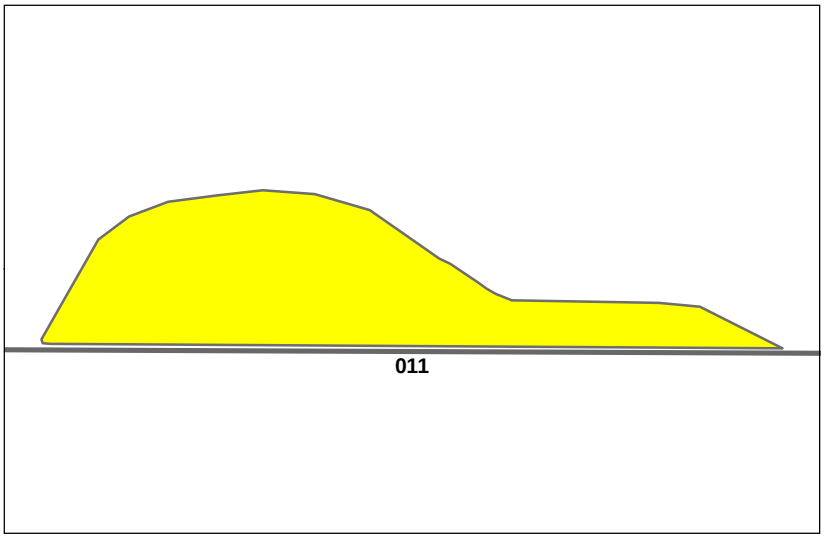
Route 900: Visitor Center Parking

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10009719	4/3/2008	Asphalt	1225	Fair	$1200



Route 901: Cornfield Nature Trail Parking

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10009690	4/3/2008	Gravel	12881	Fair	$4000

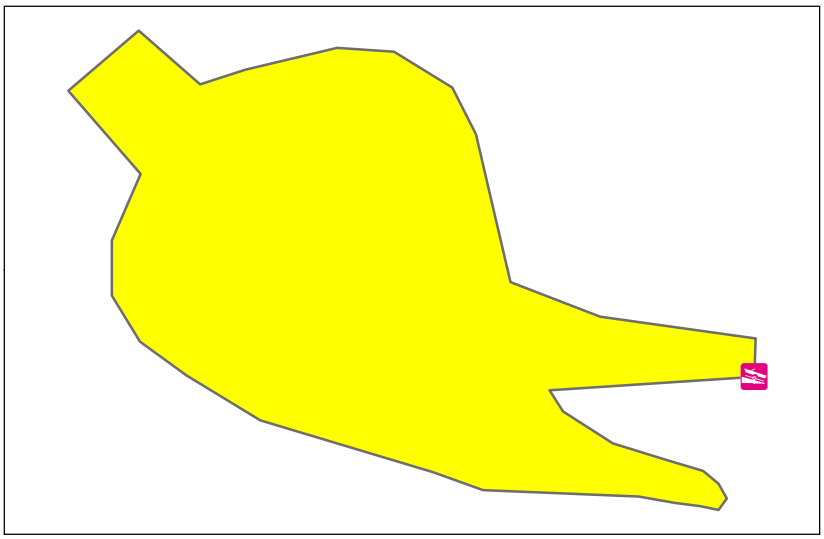


N

80 40 0 80 160 Feet

Route 902: Cibola Lake North Parking Area

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10009687	4/4/2008	Gravel	21824	Fair	$6800

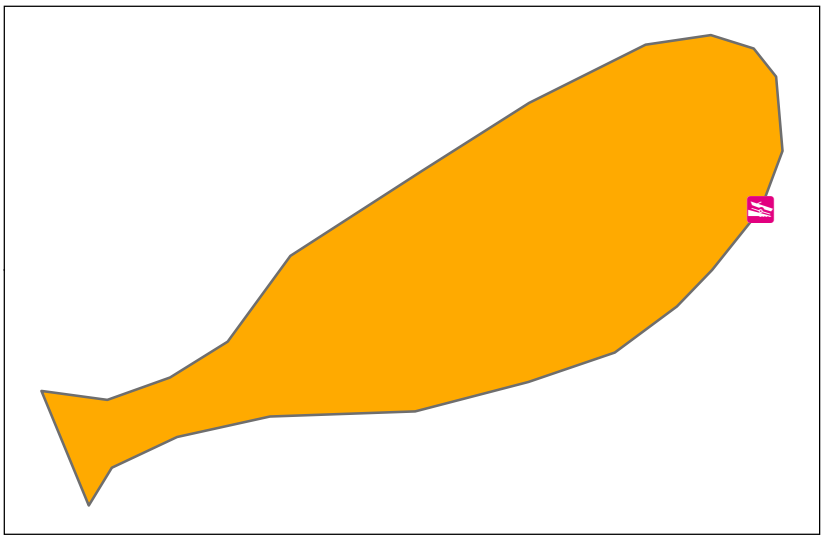


N

30 15 0 30 60 Feet

Route 903: Cibola Lake South Parking Area

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10009688	4/4/2008	Gravel	6852	Poor	$8900

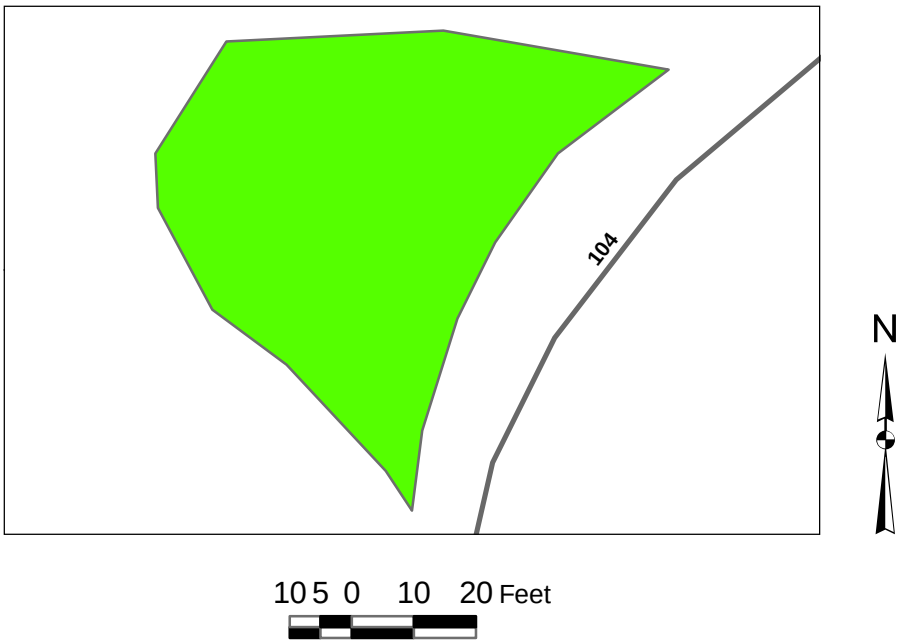


N

20 10 0 20 40 Feet

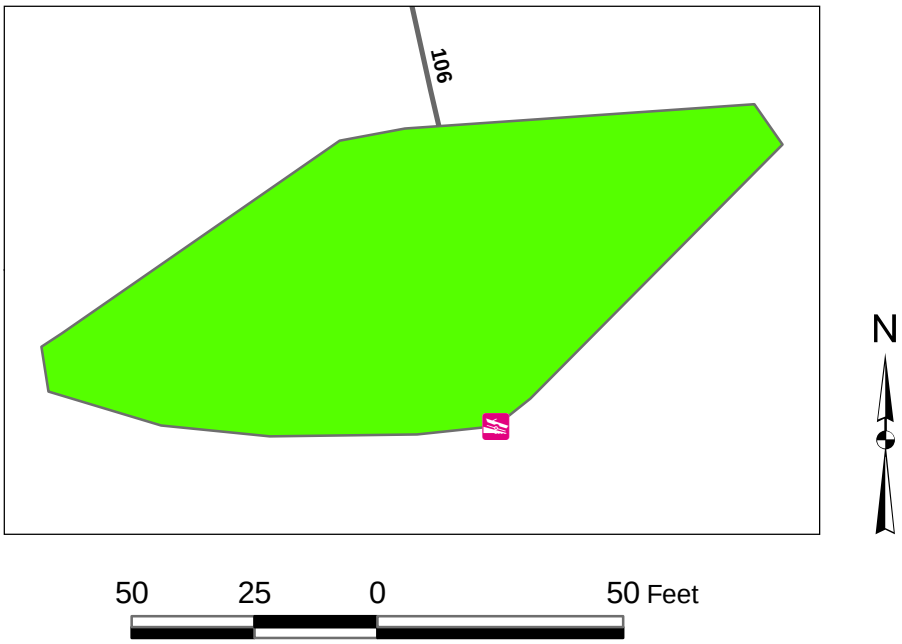
Route 904: Middle Road Parking Area 2

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
	4/4/2008	Gravel	2654	Good	$500



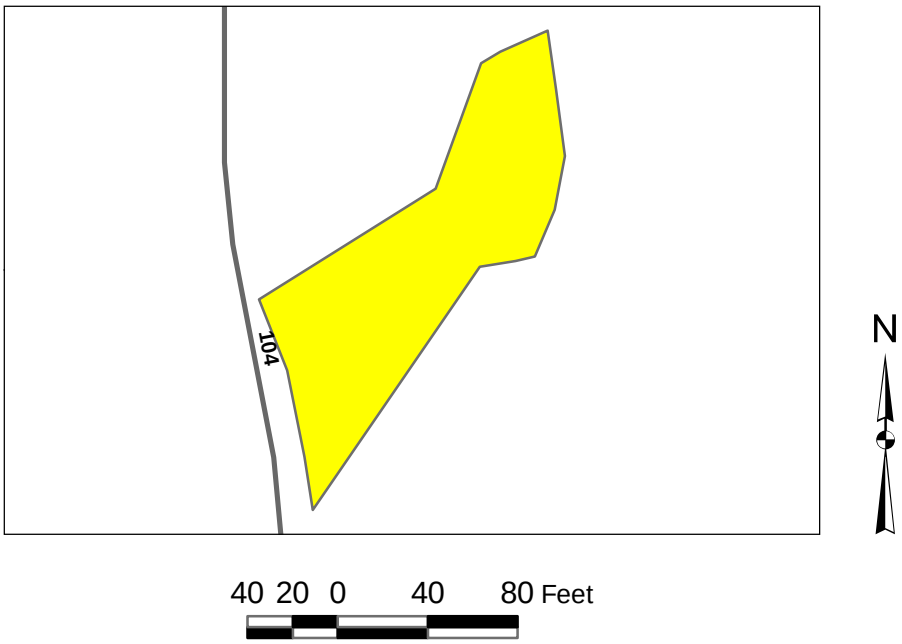
Route 906: Pretty Water Parking Area

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
	4/4/2008	Gravel	5206	Good	$900



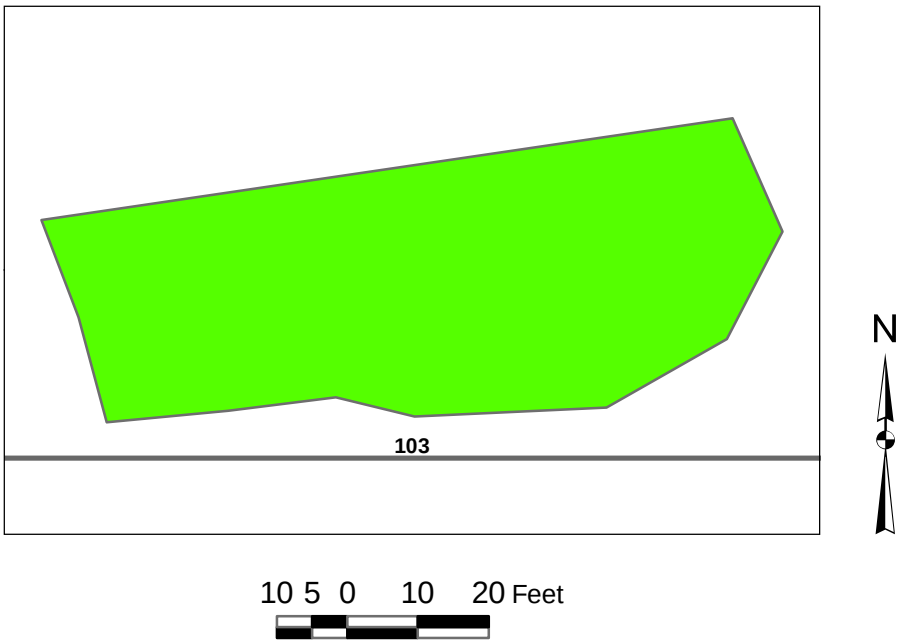
Route 910: Middle Road North Parking Area

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
	4/4/2008	Gravel	8749	Fair	$2700



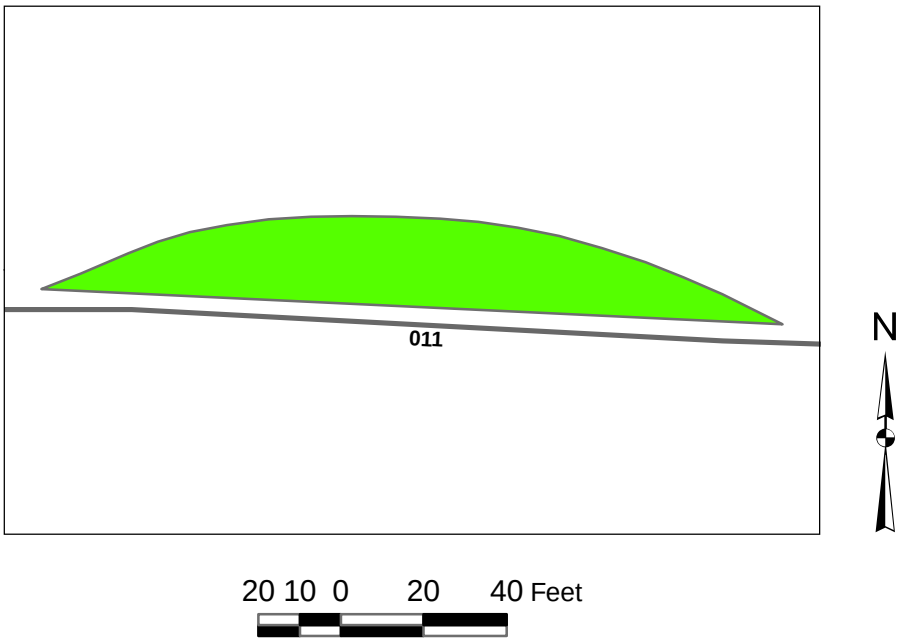
Route 911: Kiosk Parking Area

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
	4/4/2008	Gravel	2690	Good	$500



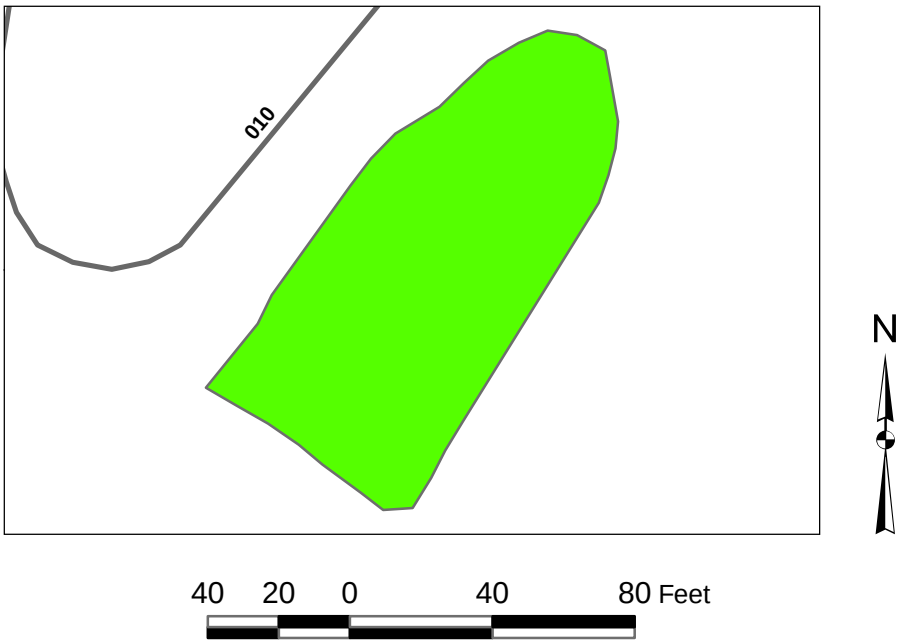
Route 912: Long Pond Overlook Parking

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10009692	4/3/2008	Gravel	2232	Good	$400



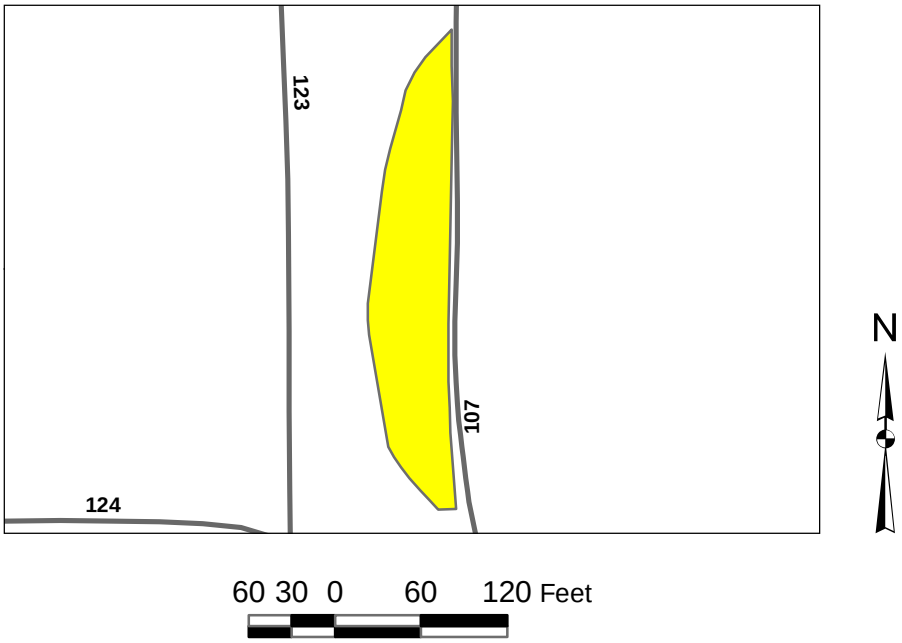
Route 913: Visitor Center Parking

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
	4/3/2008	Gravel	6550	Good	$1200



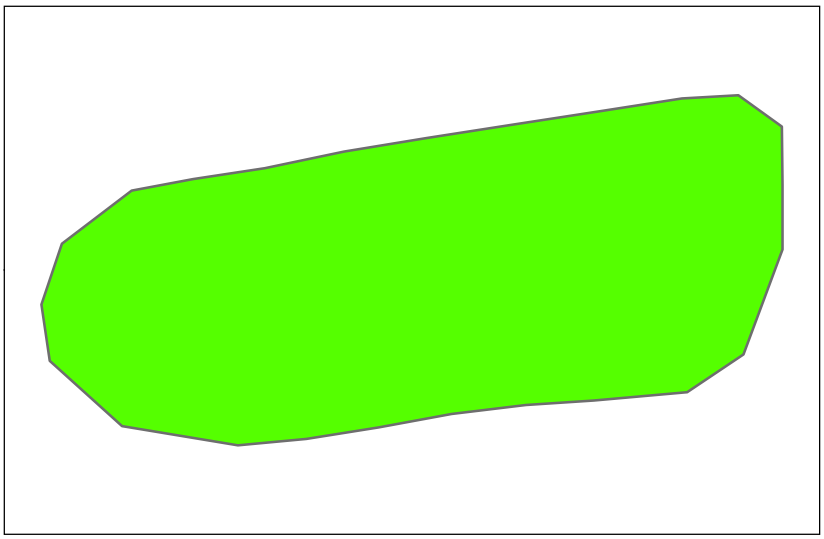
Route 914: Farm Unit 2 Goose Check Station Parking

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
	4/4/2008	Gravel	11754	Fair	$3700



Route 915: Island Unit Road Additional Parking

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
	4/4/2008	Gravel	2628	Good	$500

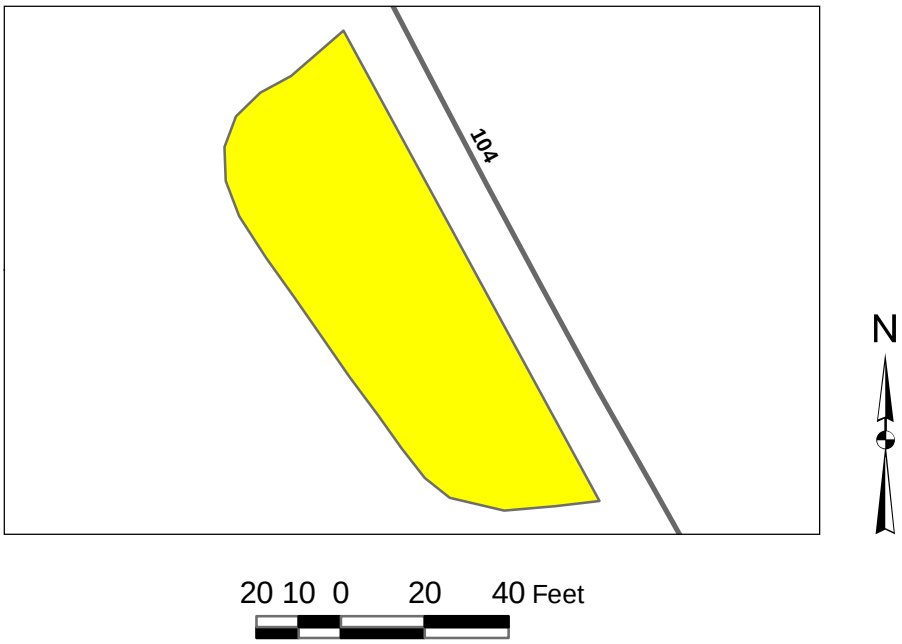


N

10 5 0 10 20 Feet

Route 916: Middle Road Parking

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
	4/4/2008	Gravel	3745	Fair	$1200



Rte #	Milepost	NBIS #	Sufficiency Rating	Functionally Obsolete	Structurally Deficient
No bridges to report					

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 010 ROUTE NAME: Refuge Entrance Road

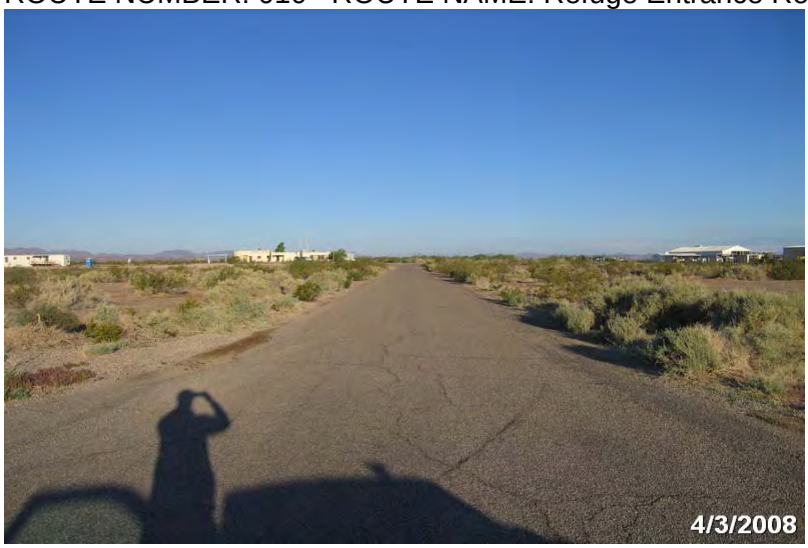


Photo # 2913 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 010 ROUTE NAME: Refuge Entrance Road

Photo # 2914 - MP 0.11 - Begin Section 002

ROUTE NUMBER: 010 ROUTE NAME: Refuge Entrance Road

Photo # 3045 - MP 0.16 - Begin Section 003

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 011 ROUTE NAME: Auto Tour Loop Road

Photo # 2918 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 011 ROUTE NAME: Auto Tour Loop Road

Photo # 2922 - MP 0.04 - Begin Section 002

ROUTE NUMBER: 011 ROUTE NAME: Auto Tour Loop Road

Photo # 2940 - MP 1.05 - Begin Section 003

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 011 ROUTE NAME: Auto Tour Loop Road

Photo # 2932 - MP 2.06 - Begin Section 004

ROUTE NUMBER: 100 ROUTE NAME: West Hart Mine Marsh Road

Photo # 3273 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 101 ROUTE NAME: Arnett Ditch Road

Photo # 3259 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 101 ROUTE NAME: Arnett Ditch Road

Photo # 3266 - MP 1.03 - Begin Section 002

ROUTE NUMBER: 101 ROUTE NAME: Arnett Ditch Road

Photo # 3272 - MP 2.17 - Begin Section 003

ROUTE NUMBER: 102 ROUTE NAME: Cibola Lake Road

Photo # 3256 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 103 ROUTE NAME: Island Unit Public Access Road

Photo # 3346 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 103 ROUTE NAME: Island Unit Public Access Road

Photo # 3348 - MP 1.02 - Begin Section 002

ROUTE NUMBER: 103 ROUTE NAME: Island Unit Public Access Road

Photo # 3361 - MP 2.04 - Begin Section 003

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 104 ROUTE NAME: Island Unit Middle Road

Photo # 3418 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 105 ROUTE NAME: Three Finger Lake Road

Photo # 3450 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 105 ROUTE NAME: Three Finger Lake Road

Photo # 3451 - MP 0.82 - Begin Section 003

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 106 ROUTE NAME: Pretty Water Road

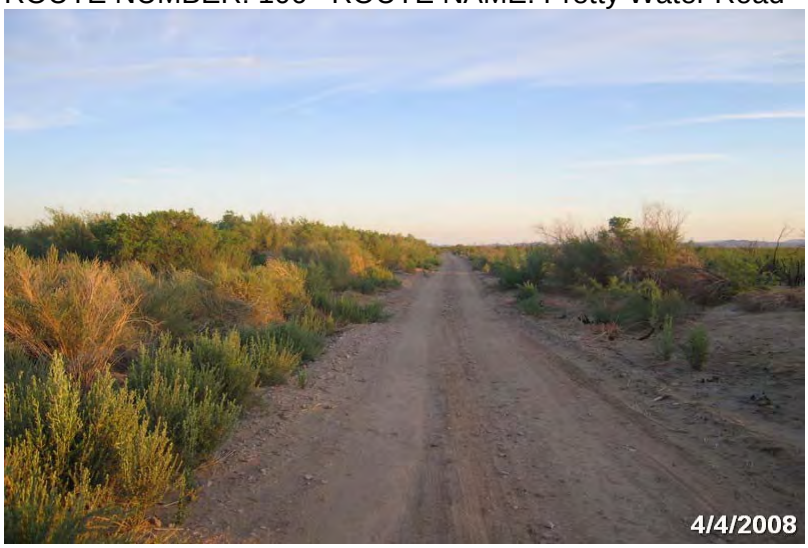


Photo # 3447 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 107 ROUTE NAME: Farm Unit 2 Goose Hunt Road

Photo # 3276 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 107 ROUTE NAME: Farm Unit 2 Goose Hunt Road

Photo # 3280 - MP 1.01 - Begin Section 002

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 108 ROUTE NAME: Farm Unit 2 Access Road 2

Photo # 3287 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 109 ROUTE NAME: East Hart Mine Marsh Road

Photo # 3275 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 110 ROUTE NAME: Farm Unit 2 Southeast Access Road

Photo # 3333 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 110 ROUTE NAME: Farm Unit 2 Southeast Access Road

Photo # 3334 - MP 1.01 - Begin Section 002

ROUTE NUMBER: 111 ROUTE NAME: Island Unit Boat Ramp Access Road 2

Photo # 3368 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 112 ROUTE NAME: Island Unit Boat Ramp Access Road 1

Photo # 3369 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 113 ROUTE NAME: Fire Break Road

Photo # 3445 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 113 ROUTE NAME: Fire Break Road

Photo # 3446 - MP 1.10 - Begin Section 002

ROUTE NUMBER: 114 ROUTE NAME: Farm Unit 2 Access Road 1

Photo # 3274 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 120 ROUTE NAME: Farm Unit 2 Central Access Road

Photo # 3294 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 121 ROUTE NAME: Farm Unit 2 Hunting Blind Access Road

Photo # 3286 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 122 ROUTE NAME: Farm Unit 2 North Dike Loop

Photo # 3288 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 123 ROUTE NAME: Farm Unit 2 Access Road 3

Photo # 3332 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 124 ROUTE NAME: Farm Unit 2 Access Road 4

Photo # 3331 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 125 ROUTE NAME: Farm Unit 2 Access Road 5

Photo # 3337 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 126 ROUTE NAME: Farm Unit 2 Access Road 6

Photo # 3338 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 127 ROUTE NAME: Farm Unit 2 Access Road 7

Photo # 3341 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 400 ROUTE NAME: Long Pond Road

Photo # 2964 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 400 ROUTE NAME: Long Pond Road

Photo # 2965 - MP 0.27 - Begin Section 002

ROUTE NUMBER: 401 ROUTE NAME: Farm Unit 1 Access Road 1

Photo # 3099 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 402 ROUTE NAME: Farm Unit 1 Access Road 2

Photo # 3093 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 403 ROUTE NAME: Farm Unit 1 South Dike Access Road 1

Photo # 3046 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 403 ROUTE NAME: Farm Unit 1 South Dike Access Road 1

Photo # 3051 - MP 1.02 - Begin Section 002

ROUTE NUMBER: 404 ROUTE NAME: Farm Unit 1 South Dike Access Road 2

Photo # 3004 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 405 ROUTE NAME: Pump Unit #1 Road

Photo # 2945 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 405 ROUTE NAME: Pump Unit #1 Road

Photo # 2956 - MP 1.01 - Begin Section 002

ROUTE NUMBER: 406 ROUTE NAME: Cottonwood Restoration Area Road

Photo # 2972 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 407 ROUTE NAME: Farm Unit 1 Northeast Access Road

Photo # 2963 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 408 ROUTE NAME: Farm Unit 1 North Access Road

Photo # 2982 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 408 ROUTE NAME: Farm Unit 1 North Access Road

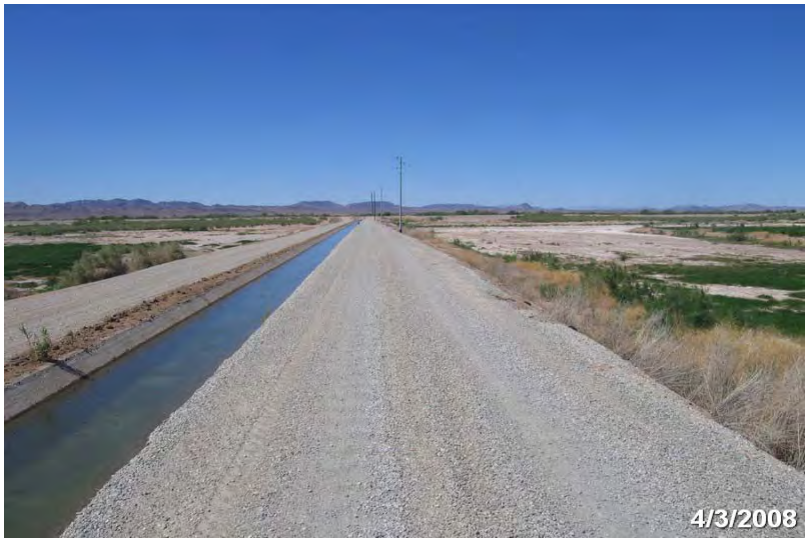


Photo # 2985 - MP 1.02 - Begin Section 002

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 409 ROUTE NAME: Farm Unit 1 West Access Road

Photo # 2989 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 409 ROUTE NAME: Farm Unit 1 West Access Road

Photo # 2994 - MP 1.00 - Begin Section 002

ROUTE NUMBER: 409 ROUTE NAME: Farm Unit 1 West Access Road

Photo # 3001 - MP 2.01 - Begin Section 003

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 410 ROUTE NAME: Farm Unit 1 West Access Spur 1

Photo # 2988 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 411 ROUTE NAME: Island Unit Access Road 4

Photo # 3364 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 412 ROUTE NAME: Island Unit Access Road 5

Photo # 3363 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 413 ROUTE NAME: Island Unit Fire Break Road

Photo # 3370 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 413 ROUTE NAME: Island Unit Fire Break Road

Photo # 3371 - MP 1.01 - Begin Section 002

ROUTE NUMBER: 414 ROUTE NAME: Island Unit Access Road 1A

Photo # 3373 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 415 ROUTE NAME: Island Unit Access Road 1

Photo # 3374 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 415 ROUTE NAME: Island Unit Access Road 1

Photo # 3379 - MP 0.68 - Begin Section 002

ROUTE NUMBER: 415 ROUTE NAME: Island Unit Access Road 1

Photo # 3380 - MP 1.64 - Begin Section 003

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 415 ROUTE NAME: Island Unit Access Road 1

Photo # 3381 - MP 2.62 - Begin Section 004

ROUTE NUMBER: 416 ROUTE NAME: Island Unit Central Pond Access 1

Photo # 3383 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 417 ROUTE NAME: Island Unit Central Pond Access 2

Photo # 3384 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 418 ROUTE NAME: Island Unit Central Pond Access 3

Photo # 3385 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 419 ROUTE NAME: Island Unit Access Road 2

Photo # 3444 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 419 ROUTE NAME: Island Unit Access Road 2

Photo # 3434 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 420 ROUTE NAME: Island Unit Southeast Access Loop

Photo # 3437 - MP 1.04 - Begin Section 002

ROUTE NUMBER: 421 ROUTE NAME: Island Unit Access Road 3

Photo # 3424 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 422 ROUTE NAME: Island Unit Southeast Access Loop Spur

Photo # 3442 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 423 ROUTE NAME: Farm Unit 1 Access Road 3

Photo # 3195 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 423 ROUTE NAME: Farm Unit 1 Access Road 3

Photo # 3200 - MP 1.20 - Begin Section 002

ROUTE NUMBER: 424 ROUTE NAME: Farm Unit 1 South Dike Access 1A

Photo # 3092 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 425 ROUTE NAME: Farm Unit 1 West Access Spur 2

Photo # 3097 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 426 ROUTE NAME: Farm Unit 1 West Access Spur 3

Photo # 3098 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 427 ROUTE NAME: Farm Unit 1 Access Road 4

Photo # 3201 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 427 ROUTE NAME: Farm Unit 1 Access Road 4

Photo # 3208 - MP 1.02 - Begin Section 002

ROUTE NUMBER: 428 ROUTE NAME: Farm Unit 1 Access Road 5

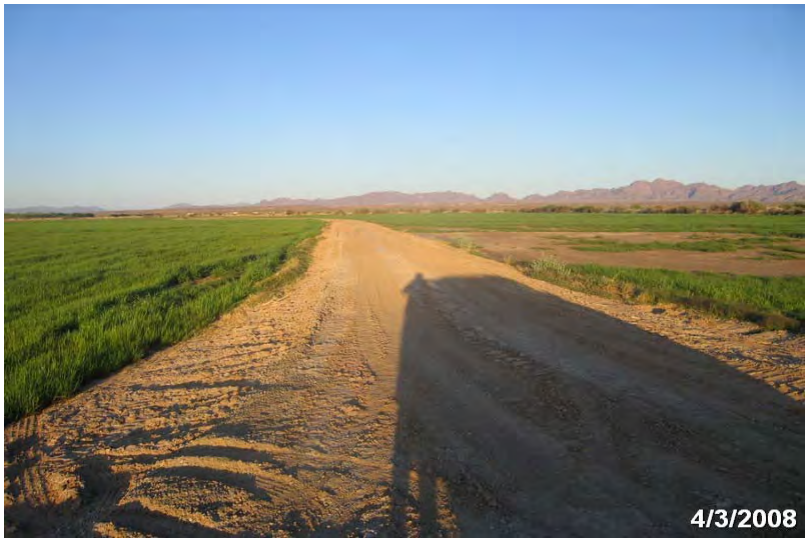


Photo # 3211 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 429 ROUTE NAME: Farm Unit 1 Access Road 6

Photo # 3210 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 430 ROUTE NAME: Farm Unit 1 Access Road 7

Photo # 3209 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 431 ROUTE NAME: Farm Unit 1 Access Road 8

Photo # 3212 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 432 ROUTE NAME: South Long Pond Road

Photo # 3231 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 431 ROUTE NAME: Farm Unit 1 Access Road 8

Photo # 3212 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 432 ROUTE NAME: South Long Pond Road

Photo # 3231 - MP 0.00 - Begin Route at Begin Section

Accident Summary

Number of Accidents Reported	Timespan of Accidents	Injuries	Fatalities
0	No Accidents to Report	0	0

APPENDIX

FWS ROAD FUNCTIONAL CLASSIFICATION	
Class I	Principal Refuge Road (Public Roads) - Routes that constitute the main access route, main auto tour route, or thoroughfare for refuge visitors. These routes are accessible by 2WD vehicles. Routes are numbered from 10 to 99.
Class II	Connector Refuge Road (Public Roads) - Routes that provide circulation within the refuge. These routes can also provide access to areas of scenic, scientific, recreational or cultural interest, such as overlooks, campgrounds, education centers, etc. These routes are accessible by 2WD vehicles. Routes are numbered from 100 to 199.
Class III	Special Purpose Refuge Road (Public Roads) - Roads that provide circulation within special use areas such as campgrounds or public concessionaire facilities or access to remote areas of the refuge. These routes may not be 2WD accessible. Routes are numbered from 200 to 299
Class IV	Administrative Access Road (Administrative Roads) - Routes intended for access to administrative developments or structures such as maintenance offices, employee quarters, or utility areas. These routes are accessible by 2WD vehicles. These routes may restrict access to the general public. Routes are numbered from 300 to 399.
Class V	Restricted Road (Administrative Roads) - Routes normally closed to the public, such as maintenance roads, service roads, patrol roads, and fire breaks. These routes may be open to the public for a short period of time for a special use, such as hunting access. These routes may not be 2WD accessible. Routes are numbered from 400 to 499.

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

DESCRIPTION OF RATING SYSTEM

Rating Data is collected on five different surface types: Asphalt, Concrete, Gravel, Native Improved and Native Primitive. The Utah LTAP Center's Remaining Service Life (RSL) system is used for all surface types. The RSL system is based on the Strategic Highway Research Program's (SHRP) Distress Identification Manual.

Asphalt Rating System

Data is collected on the following distresses and conditions:

- **Fatigue Cracking -** Interconnected cracks forming small irregular shapes.
- **Longitudinal Cracking -** Cracks running parallel with the roadway, in the direction of traffic.
- **Transverse Cracking -** Cracks perpendicular to the roadway, going across the lane or lanes.
- **Block Cracking -** Interconnected cracks forming large blocks.
- **Edge Cracking –** Cracks running along the edge of the pavement surface.
- **Patches -** Original surface repaired with new asphalt patch material.
- **Potholes -** Holes or depressions in the pavement.
- **Rutting -** surface depressions in the wheel paths.
- **Roughness –** Evenness of pavement for serviceability.
- **Drainage –** Ability of the road surface to drain water based on proper slope.

A Condition Rating value is calculated for each homogenous pavement section, and can be up to 1 mile in length.

Rating Index Formula

Fatigue, longitudinal, transverse, block, and edge cracking, along with patching and potholes are rated on a 0 - 9 scale (0 = no distress, 9 = maximum distress). The rating given is based on the extent and the severity of the distress. Rutting, roughness, and drainage are rated on a 0 - 3 scale (0 = excellent, 3 = poor). Each distress type has a given Remaining Service Life (RSL) value (in years) based on the rating for that distress. The distress rating resulting in the lowest RSL value is considered to be the governing distress. That value is assigned as the RSL of the road segment.

Concrete Rating System

Data is collected on the following distresses and conditions:

- **Spalling of Joints –** Chipping, breaking, or cracking of slab edges
- **Joint Seal Damage –** Any damage or condition that enables materials or water to infiltrate into the joint from the surface.
- **Corner Breaks –** A portion of the slab separated by a crack that intersects the adjacent transverse and longitudinal joints, forming approximately a 45° angle to the direction.
- **Broken Slabs –** Faulting and/or cracking localized to individual slabs.
- **Faulting –** Difference in elevation across a crack or joint.
- **Longitudinal Cracking –** Cracks in the pavement running parallel to road.

- **Transverse Cracking -** Cracks in the pavement running perpendicular to the direction of traffic.
- **Patch Deterioration** – Faulting, settling, or cracking of previously placed patch
- **Map Cracking** – A series of cracks that extend only into the upper surface of the Slab

A Condition Rating value is calculated for each homogenous pavement section, and can be up to 1 mile in length.

Rating Index Formula
The rating procedure for concrete pavement is the same as that for asphalt pavement described previously. Each of the distresses described above are rated on the same 0 – 9 scale. The governing distress is then determined and the RSL associated with that distress is assigned to the road segment.

Gravel and Native Improved Rating System

Data is collected on the following distresses and conditions:
- **Cross Section (Gravel, Native Improved only) -** Roadway built so that the center is higher than the
shoulder, to prevent water from pooling on roadway.
- **Roadside Drainage (Gravel, Native Improved only) -** Roadside ditches and culverts to handle water flow and
prevent pooling on the roadside.
- **Corrugations (Washboarding) -** Small trenches or holes developing perpendicular to the roadway.
- **Potholes -** Holes or depressions in the roadway.
- **Rutting -** Depressions running parallel with the roadway, in the wheelpaths.
- **Dust -** Amount of dust caused by traffic.
- **Loose Aggregate (Gravel Only) -** Loose gravel, typically piled up on the roadway edges or centerline.

A Condition Rating value is calculated for each homogenous pavement section, and can be up to 1 mile in length.

Rating Index Formula
The rating procedure for unpaved roads is the same as that for asphalt and concrete pavements described previously. Of the distresses described above, corrugations, potholes, rutting, and loose aggregate are rated on the same 0 – 9 scale previously mentioned. Cross section, roadside drainage, and dust are rated on the same 0 – 3 scale described for asphalt pavement. The governing distress is then determined and the RSL associated with that distress is assigned to the road segment.

Condition Descriptions by Surface Type

The following definitions are used to describe pavement condition for the various surface types. These are general guidelines for condition indications.

Asphalt

Excellent – Recently constructed or overlaid road where construction or overlay was performed correctly- No maintenance required. RSL = 19-20 years.

Good – Low extent longitudinal and transverse cracks. All cracks are 1/4" or less with little or no crack erosion. Patches are in good condition and applied correctly. Routine Maintenance recommended. RSL = 13-18 years.

Fair - Roads are in good structural condition with little or no fatigue cracking. Longitudinal, transverse, and edge cracking is at medium extent and severity. Block cracking is not extensive. Any patches are in good condition. Preventative maintenance recommended. RSL = 7-12 years.

Poor - Road beginning to show signs of structural distress. Fatigue cracking is medium to high extent and medium severity. Cracking will be severe. Surface may have severe block cracking and show. Patches are in fair to poor condition. There is moderate distortion or rutting and occasional potholes. Rehabilitation recommended. RSL = 1-6 years.

Failed - Road is severely deteriorated. Signs of structural failure appear along with severe and extensive fatigue cracking, distortion, potholes, or extensive patches in poor condition. Reconstruction recommended. RSL = 0 years.

Concrete

Excellent - New pavement. No maintenance required. RSL = 19-20 years

Good - First signs of transverse cracking, patch or repair, more extensive pop-outs, or scaling. Sealing or routine maintenance recommended. RSL = 13-18 years.

Fair – Pavement has join or crack spalling, and/or faulting, along with cracking at corners with broken pieces. Any Patches are in fair condition and faulting is at a minimum. Preventative maintenance recommended. RSL = 7-12 years.

Poor - Joints and cracks are open 1 inch, spalled, or patched. Faulting is more severe. Rehabilitation recommended. RSL = 1-6 years.

Failed - Most slabs have failed structurally, and faulting is severe. Reconstruction recommended. RSL = 0 years.11-9

The following table shows the relationship between RSL and condition.

SUBJECTIVE CONDITION RATING FOR REMAINING SERVICE LIFE (Asphalt and Concrete Pavements)								
	FAILED	POOR		FAIR		GOOD		EXCELLENT
RSL Years	0	1-3	4-6	7-9	10-12	13-15	16-18	19-20

Gravel and Native

Excellent - Newly constructed road that has been constructed properly with proper crown, drainage and gravel layer. Little or no distress. No maintenance recommended. RSL = 8-10 years.

Good - Crown, drainage provisions, and gravel layer are in good condition. Distress limited to traffic effects such as dust, loose aggregate, and low severity corrugations (wash boarding). RSL = 5-7 years.

Fair - Adequate drainage and crown through majority of roadway. Crown repair, ditch improvement may be necessary. Road has more severe corrugations and potholes. Preventative maintenance recommended. RSL = 3-4 years.

Poor - Travel at slow speeds is necessary. Additional gravel layer needed to carry traffic. Poor crown. Ditching is inadequate and rutting is extensive and severe. Rehabilitation recommended. RSL = 1-2 years.

Failed - Travel is difficult, and road may be closed at times. Rutting and Corrugations are very severe. Total Reconstruction of road is recommended. RSL = 0 years.

The following table shows the RSL values for gravel and native roads in terms of excellent,good, fair, poor, and failed condition.

SUBJECTIVE CONDITION RATING FOR REMAINING SERVICE LIFE (Gravel and Native Surfaces)					
	FAILED	POOR	FAIR	GOOD	EXCELLENT
RSL Years	0	1-2	3-4	5-7	8-10