

# **The Trail Inventory of Malheur National Wildlife Refuge Princeton, Oregon**



**Prepared By:  
Federal Highway Administration  
Central Federal Lands Highway Division  
June 2007**



# Malheur NWR

## Trail and Trail Feature Summaries

### Trail Miles and Percentages by Surface Type and Condition

Trail Surface Type	Mileage by Trail Condition												Total Miles
	Excellent		Good		Fair		Poor		Very Poor		Not Rated*		
	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	
Native	0.71	11%		0%		0%		0%		0%		0%	0.71
Gravel	0.48	7%	0.20	3%		0%		0%		0%		0%	0.68
Asphalt		0%		0%		0%		0%		0%		0%	0.00
Concrete		0%		0%		0%		0%		0%		0%	0.00
Turnpike		0%		0%		0%		0%		0%		0%	0.00
Boardwalk		0%		0%		0%		0%		0%		0%	0.00
Puncheon		0%		0%		0%		0%		0%		0%	0.00
Woodchips		0%		0%		0%		0%		0%		0%	0.00
Mowed		0%		0%		0%		0%		0%		0%	0.00
Admin Road		0%		0%		0%		0%		0%	5.02	78%	5.02
Other		0%		0%		0%		0%		0%		0%	0.00
Totals	1.19	19%	0.20	3%	0.00	0%	0.00	0%	0.00	0%	5.02	78%	6.41

### Trail Miles and Percentages by Trail Classification and Condition

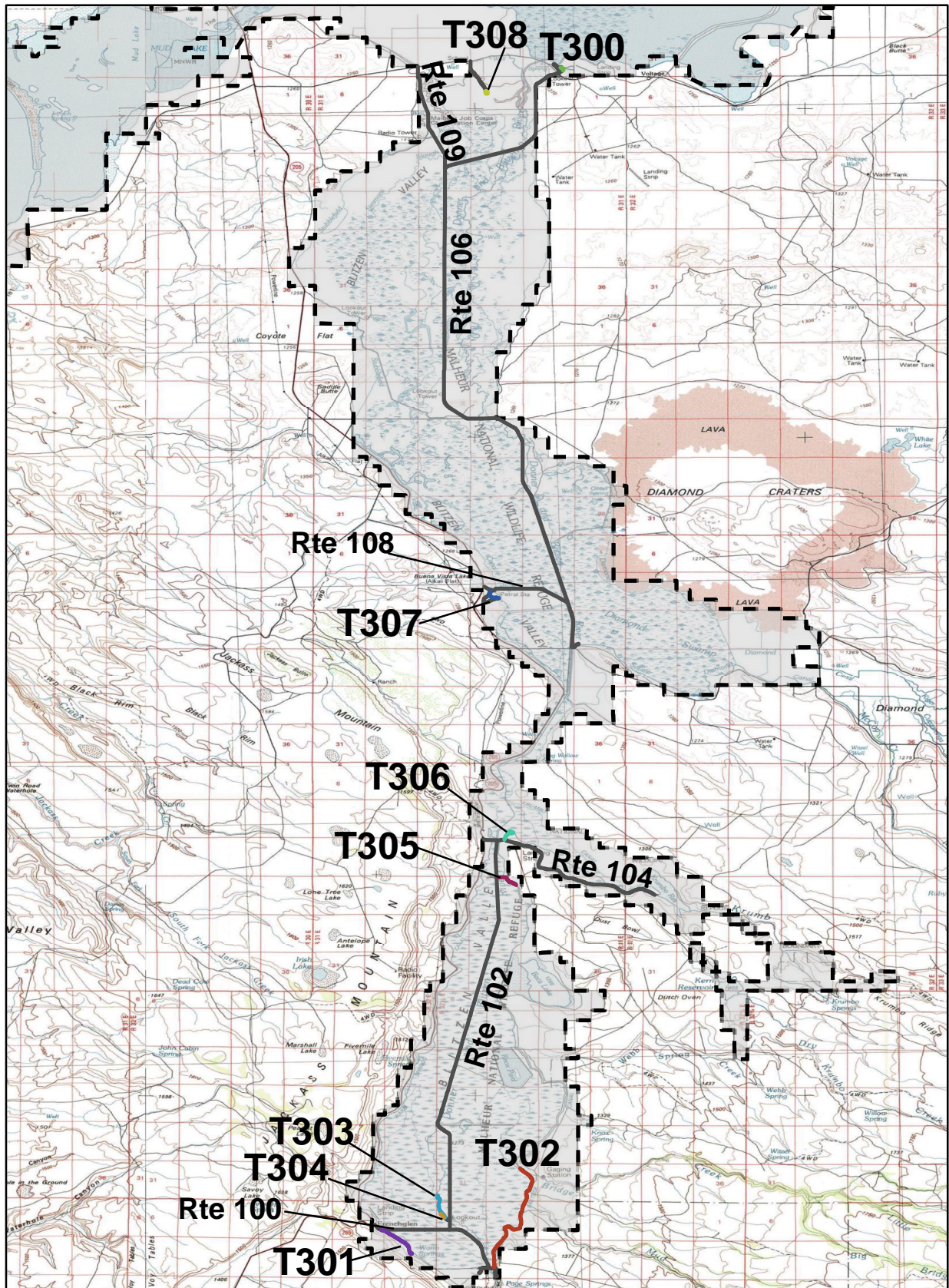
Trail Classification	Mileage by Trail Condition												Total Miles
	Excellent		Good		Fair		Poor		Very Poor		Not Rated*		
	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	
TC1		0%		0%		0%		0%		0%		0%	0.00
TC2		0%		0%		0%		0%		0%		0%	0.00
TC3	1.16	18%	0.20	3%		0%		0%		0%	5.02	78%	6.38
TC4	0.03	0%		0%		0%		0%		0%		0%	0.03
TC5		0%		0%		0%		0%		0%		0%	0.00
Totals	1.19	19%	0.20	3%	0.00	0%	0.00	0%	0.00	0%	5.02	78%	6.41

\* Admin Roads are included in the inventory but are not rated for condition.

## Trail Features

Trail Number	Feature Type	Quantity	Grouped Feature	Milepost	Photo
T300	Sign	1	No	0.00	3
T300	Sign	8	Yes	N/A	7
T300	Sign	1	No	0.10	6
T300	Sign	1	No	0.11	5
T301	Sign	1	No	0.00	16
T301	Gate	1	No	0.01	N/A
T302	Sign	1	No	0.00	25
T302	Water Control Struc	1	No	0.73	N/A
T302	Bridge -sf	1	No	3.18	27
T303	Sign	1	No	0.01	36
T303	Water Control Struc	1	No	0.60	N/A
T304	Sign	1	No	0.01	40
T305	Sign	1	No	0.00	52
T305	Bridge -sf	1	No	0.12	54
T305	Sign	1	No	0.19	55
T306	Sign	1	No	0.00	61
T307	Sign	2	No	0.00	76
T307	Sign	2	No	0.27	78
T307	Sign	1	No	0.33	81
T307	Lookout/Ob Deck	1	No	0.33	N/A
T308	Sign	4	Yes	N/A	117
T308	Sign	10	Yes	N/A	115
<b>sf-square feet</b> <b>lf-linear feet</b> <b>cf-cubic feet</b>					

# MALHEUR NWR TRAIL LOCATION MAP



 Station Boundary

0 5 10 Miles

@ HQ/VC

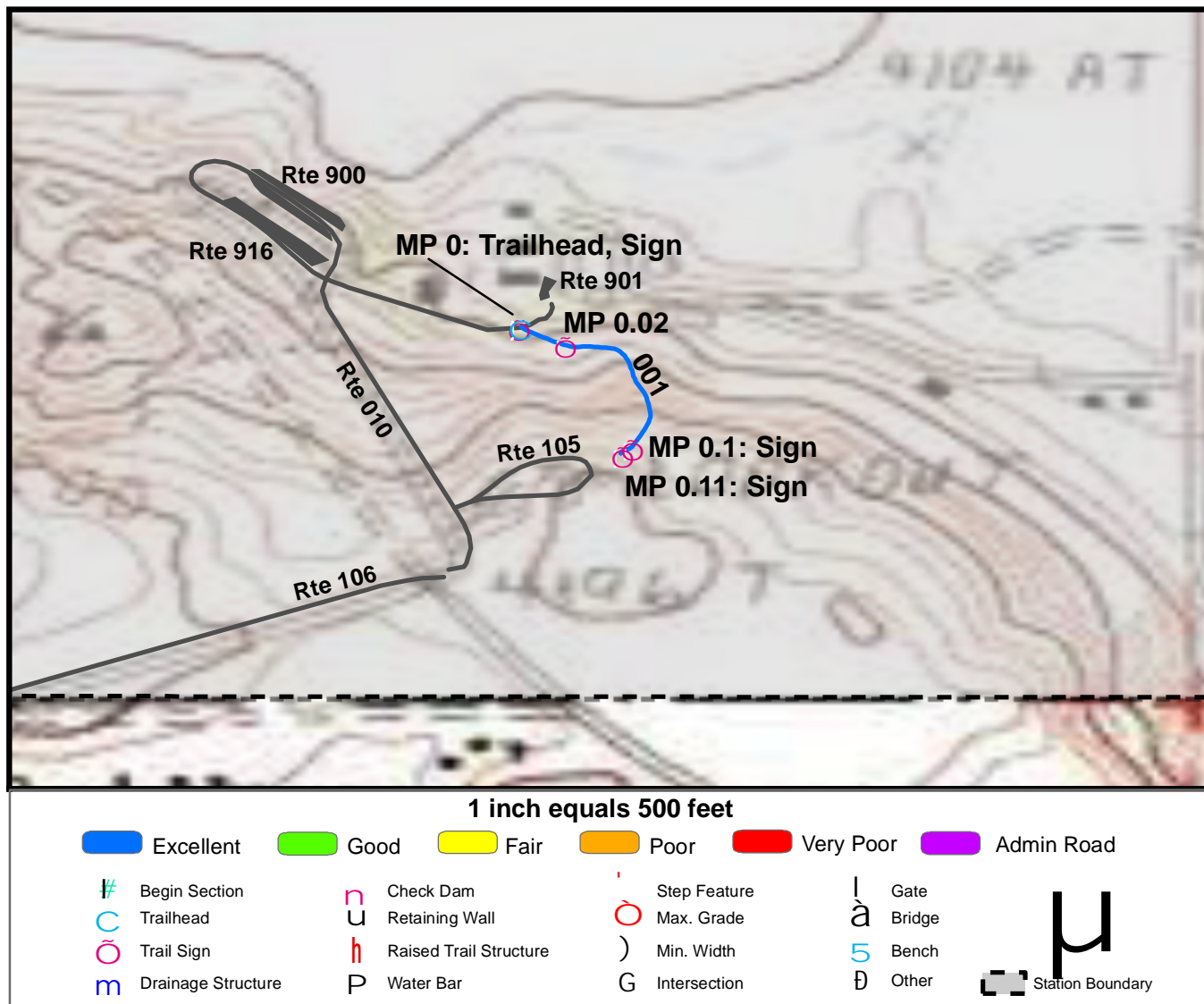
## TRAILS ID

**Station Name: Malheur NWR**

**Org. Code: 13570**

Trail #	Trail Name	Surface Type(s)	SAMMS	Trail Mileage	Trail Description (Begin and End point of trail)
T300	Headquarters Overlook Trail	Gravel	10037672	0.11	From Headquarters Entrance Road (Rte 010) MP 0.46 to end of trail
T301	Barns Springs Footpath	Admin Road	10040550	0.93	From P-Lane Road (Rte 100) MP 0.19 to end of trail
T302	East Canal Trail	Admin Road	10041329	3.19	From East Canal Entrance Parking (Rte 914) to end of trail
T303	River Trail	Admin Road	N/A	0.64	From P-Ranch Parking (Rte 903) to end of trail
T304	Long Barn Trail	Admin Road	N/A	0.12	From P-Ranch Parking (Rte 903) to end of trail
T305	Benson Pond Trail	Admin Road, Gravel	10004085	0.45	From Benson Pond Parking Area (Rte 911) to end of trail at canal
T306	Crane Pond Overlook trail	Native	N/A	0.44	From Crane Pond Overlook Trail Parking (Rte 917) to end of trail loop
T307	Buena Vista Overlook Trail	Native, Admin Road, Gravel	N/A	0.33	From Buena Vista Parking (Rte 902) to end of trail at Lookout/Ob Deck
T308	Sod House Ranch Trail	Gravel	N/A	0.2	From Sod House Ranch Parking (Rte 910) to end of trail loop

# TRAIL CONDITION



**Trail Name:** Headquarters Overlook Trail

**Refuge Name:** Malheur NWR

**Trail Number:** T300

**Region:** 1

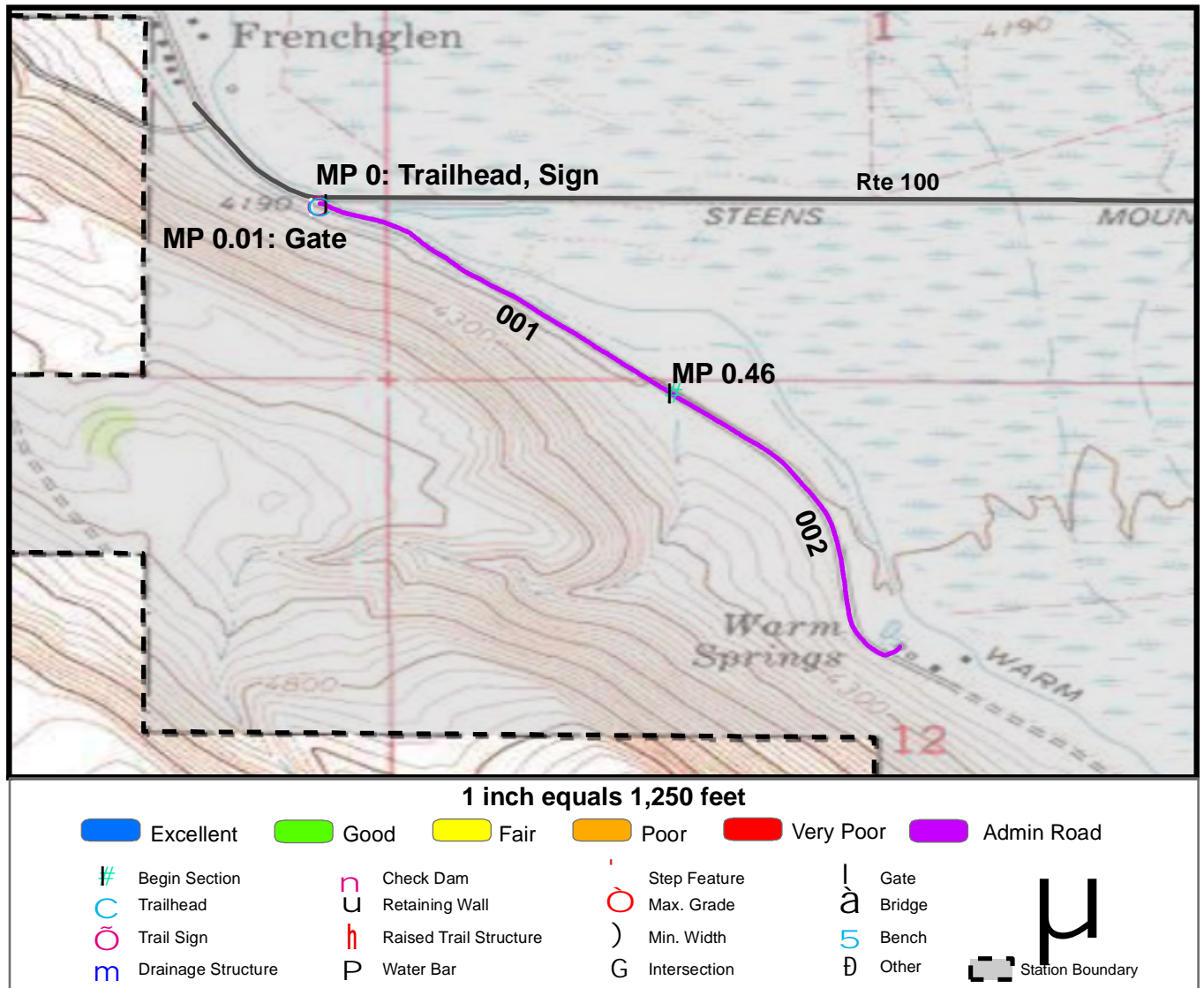
**TOTAL LENGTH:** 0.11 Miles

Section Number	001				
Section Length (miles)	0.11				
SAMMS Number	10037672				
Rating Date	6/25/2007				
<b>Trail Section Information</b>					
Trail Class	TC3				
Surface Type	Gravel				
Surface Firmness	Hard				
Width (inches)	36				
Average Grade (%)	7.9				
Average X-slope (%)	2.3				
<b>Trail Condition Information</b>					
Deferred Maintenance	\$0				
CRV	\$9704				
FCI	0				
Condition	Excellent				

## Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
\$0	\$9704	0	Excellent

# TRAIL CONDITION



**Trail Name:** Barns Springs Footpath

**Refuge Name:** Malheur NWR

**Trail Number:** T301

**Region:** 1

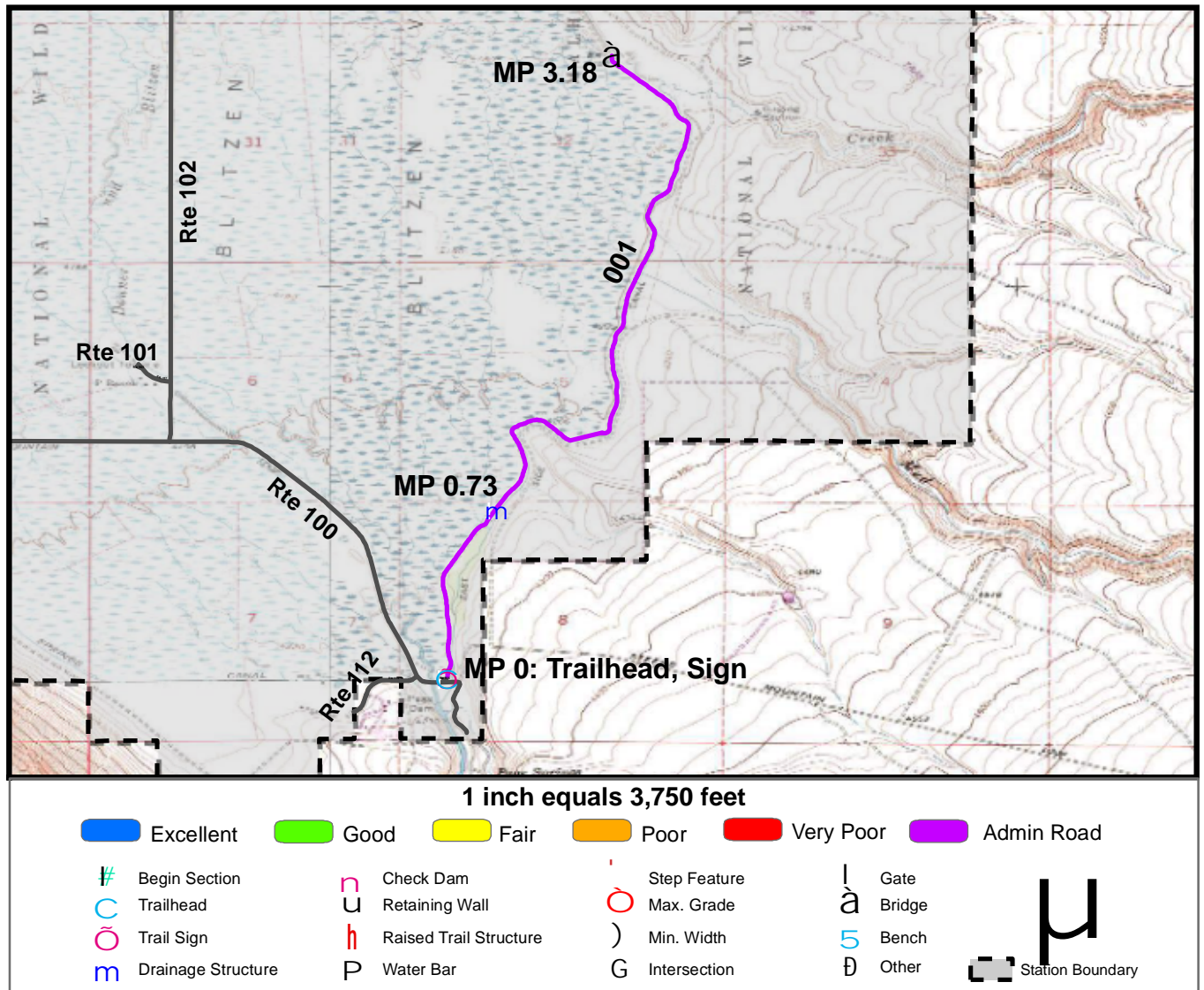
**TOTAL LENGTH:** 0.93 Miles

Section Number	001	002			
Section Length (miles)	0.46	0.47			
SAMMS Number	10040550	10040550			
Rating Date	6/25/2007	6/25/2007			
<b>Trail Section Information</b>					
Trail Class	TC3	TC3			
Surface Type	Admin Road	Admin Road			
Surface Firmness	Paved	Hard			
Width (inches)	144	120			
Average Grade (%)	0.6	0.6			
Average X-slope (%)	1.2	1.2			
<b>Trail Condition Information</b>					
Deferred Maintenance	\$0	\$0			
CRV	\$0	\$0			
FCI	0	0			
Condition	Not Rated	Not Rated			

## Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
\$0	\$0	0	Not Rated

# TRAIL CONDITION



**Trail Name:** East Canal Trail

**Refuge Name:** Malheur NWR

**Trail Number:** T302

**Region:** 1

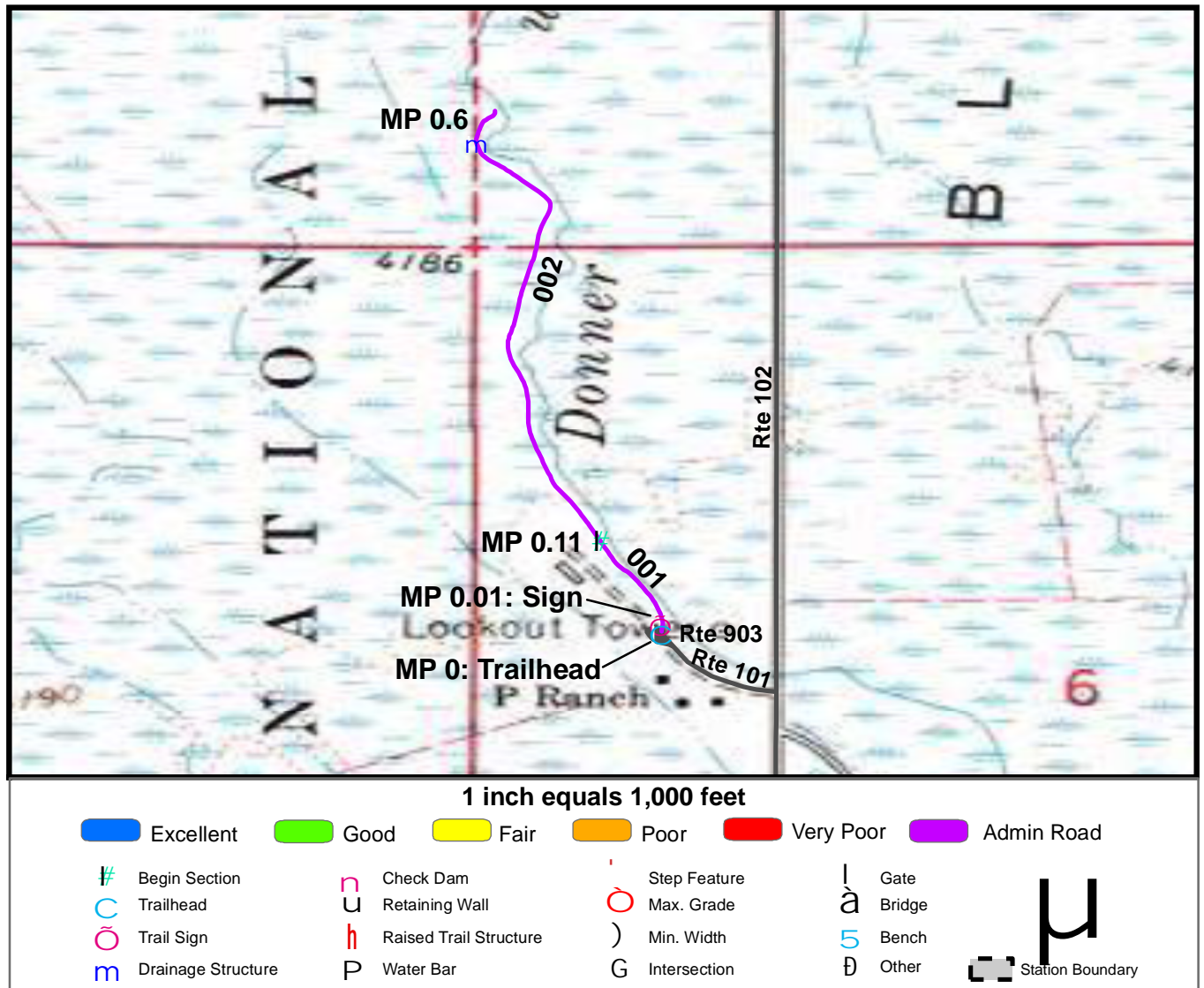
**TOTAL LENGTH:** 3.19 Miles

Section Number	001				
Section Length (miles)	3.19				
SAMMS Number	10041329				
Rating Date	6/25/2007				
<b>Trail Section Information</b>					
Trail Class	TC3				
Surface Type	Admin Road				
Surface Firmness	Hard				
Width (inches)	172				
Average Grade (%)	1				
Average X-slope (%)	3				
<b>Trail Condition Information</b>					
Deferred Maintenance	\$0				
CRV	\$0				
FCI	0				
Condition	Not Rated				

## Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
\$0	\$0	0	Not Rated

# TRAIL CONDITION



**Trail Name:** River Trail

**Refuge Name:** Malheur NWR

**Trail Number:** T303

**Region:** 1

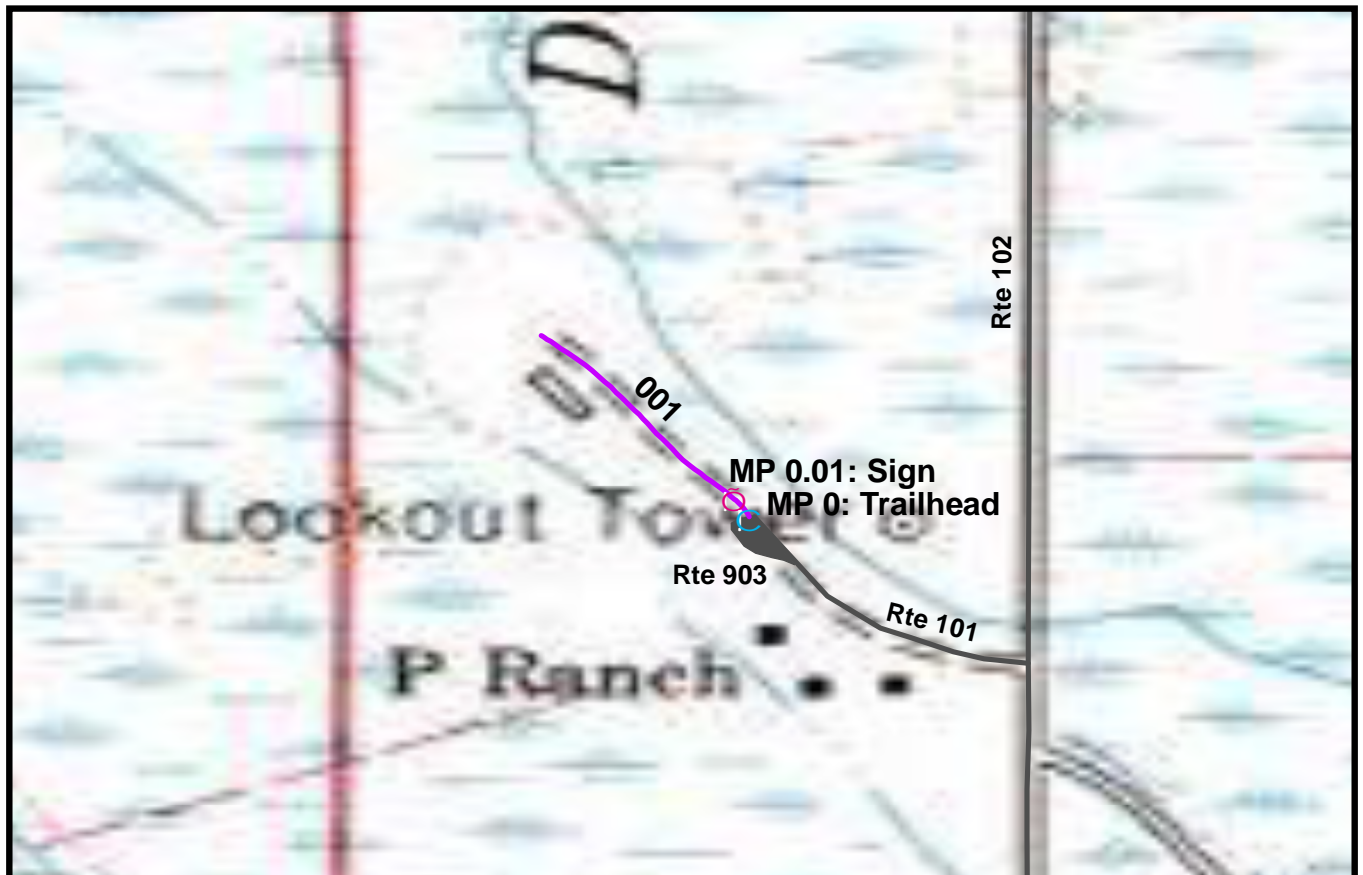
**TOTAL LENGTH:** 0.64 Miles


Section Number	001	002			
Section Length (miles)	0.11	0.53			
SAMMS Number	N/A	N/A			
Rating Date	6/25/2007	6/25/2007			
<b>Trail Section Information</b>					
Trail Class	TC3	TC3			
Surface Type	Admin Road	Admin Road			
Surface Firmness	Hard	Hard			
Width (inches)	120	120			
Average Grade (%)	1.2	1.2			
Average X-slope (%)	0.9	0.9			
<b>Trail Condition Information</b>					
Deferred Maintenance	\$0	\$0			
CRV	\$0	\$0			
FCI	0	0			
Condition	Not Rated	Not Rated			

## Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
\$0	\$0	0	Not Rated

# TRAIL CONDITION



1 inch equals 500 feet					
<span style="background-color: blue; color: white;">■</span> Excellent	<span style="background-color: green; color: white;">■</span> Good	<span style="background-color: yellow; color: black;">■</span> Fair	<span style="background-color: orange; color: black;">■</span> Poor	<span style="background-color: red; color: white;">■</span> Very Poor	<span style="background-color: purple; color: white;">■</span> Admin Road
# Begin Section	n Check Dam	Step Feature	Gate	 Station Boundary	
C Trailhead	U Retaining Wall	Max. Grade	à Bridge		
○ Trail Sign	h Raised Trail Structure	) Min. Width	5 Bench		
m Drainage Structure	P Water Bar	G Intersection	ð Other		

**Trail Name:** Long Barn Trail

**Refuge Name:** Malheur NWR

**Trail Number:** T304

**Region:** 1

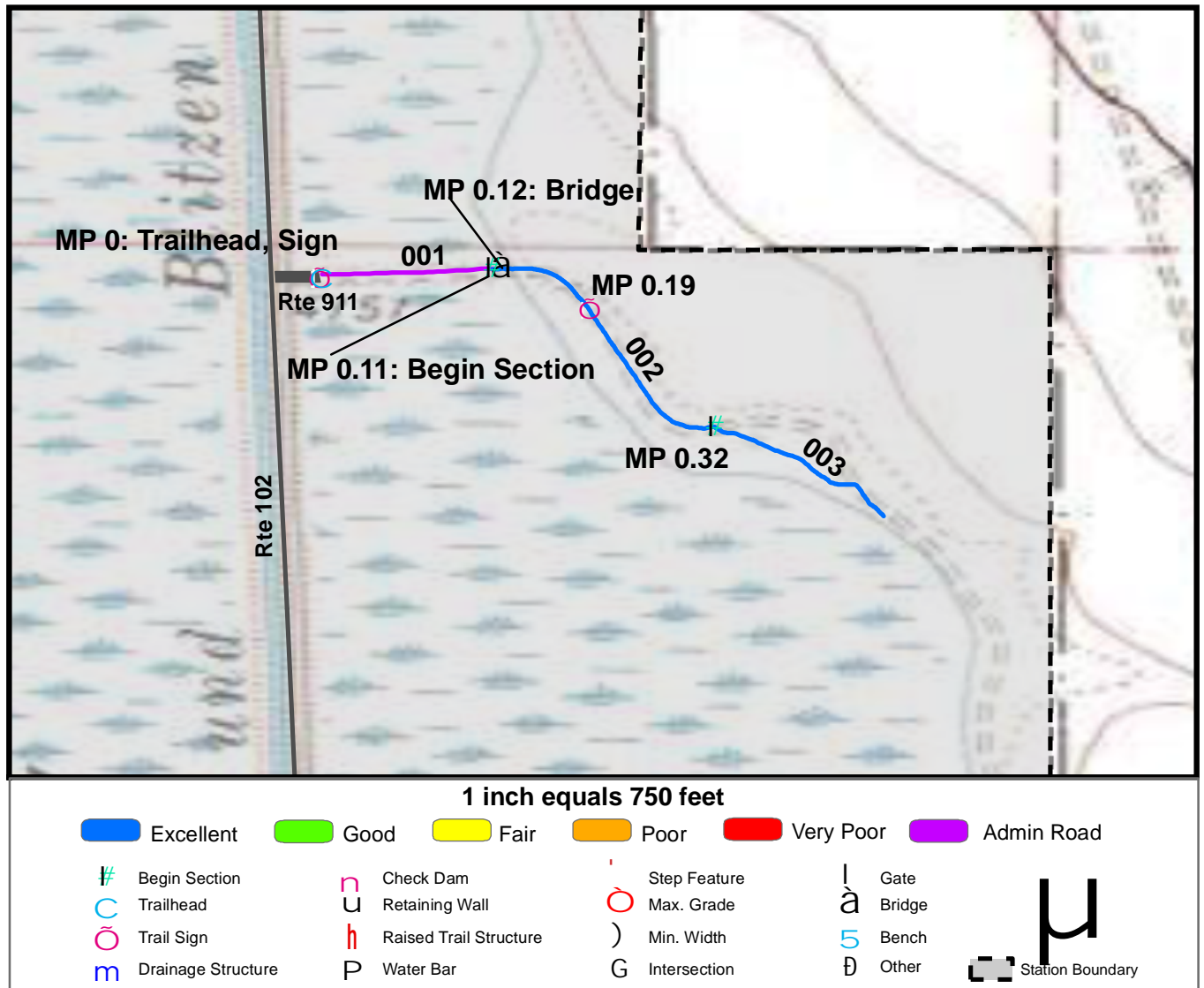
**TOTAL LENGTH:** 0.12 Miles

Section Number	001				
Section Length (miles)	0.12				
SAMMS Number	N/A				
Rating Date	6/25/2007				
<b>Trail Section Information</b>					
Trail Class	TC3				
Surface Type	Admin Road				
Surface Firmness	Hard				
Width (inches)	120				
Average Grade (%)	2.1				
Average X-slope (%)	4.6				
<b>Trail Condition Information</b>					
Deferred Maintenance	\$0				
CRV	\$0				
FCI	0				
Condition	Not Rated				

## Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
\$0	\$0	0	Not Rated

# TRAIL CONDITION



**Trail Name:** Benson Pond Trail

**Refuge Name:** Malheur NWR

**Trail Number:** T305

**Region:** 1

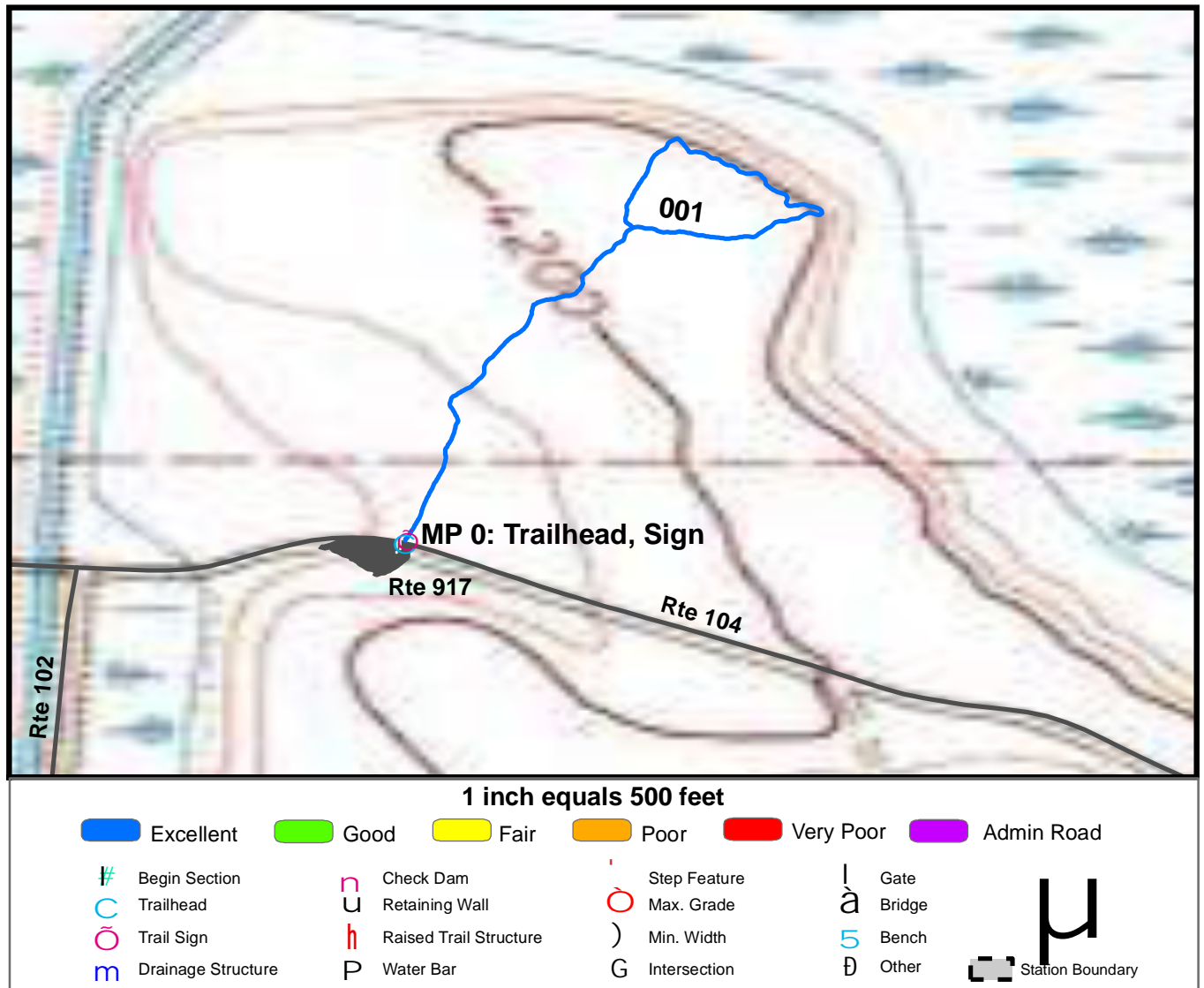
**TOTAL LENGTH:** 0.45 Miles

Section Number	001	002	003		
Section Length (miles)	0.11	0.21	0.13		
SAMMS Number	10004085	10004085	10004085		
Rating Date	6/25/2007	6/25/2007	6/25/2007		
<b>Trail Section Information</b>					
Trail Class	TC3	TC3	TC3		
Surface Type	Admin Road	Gravel	Gravel		
Surface Firmness	Hard	Hard	Hard		
Width (inches)	96	96	24		
Average Grade (%)	0.8	0.8	0.8		
Average X-slope (%)	1.8	1.8	1.8		
<b>Trail Condition Information</b>					
Deferred Maintenance	\$0	\$0	\$0		
CRV	\$0	\$51215	\$8130		
FCI	0	0	0		
Condition	Not Rated	Excellent	Excellent		

## Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
\$0	\$59345	0	Excellent

# TRAIL CONDITION



**Trail Name:** Crane Pond Overlook trail

**Refuge Name:** Malheur NWR

**Trail Number:** T306

**Region:** 1

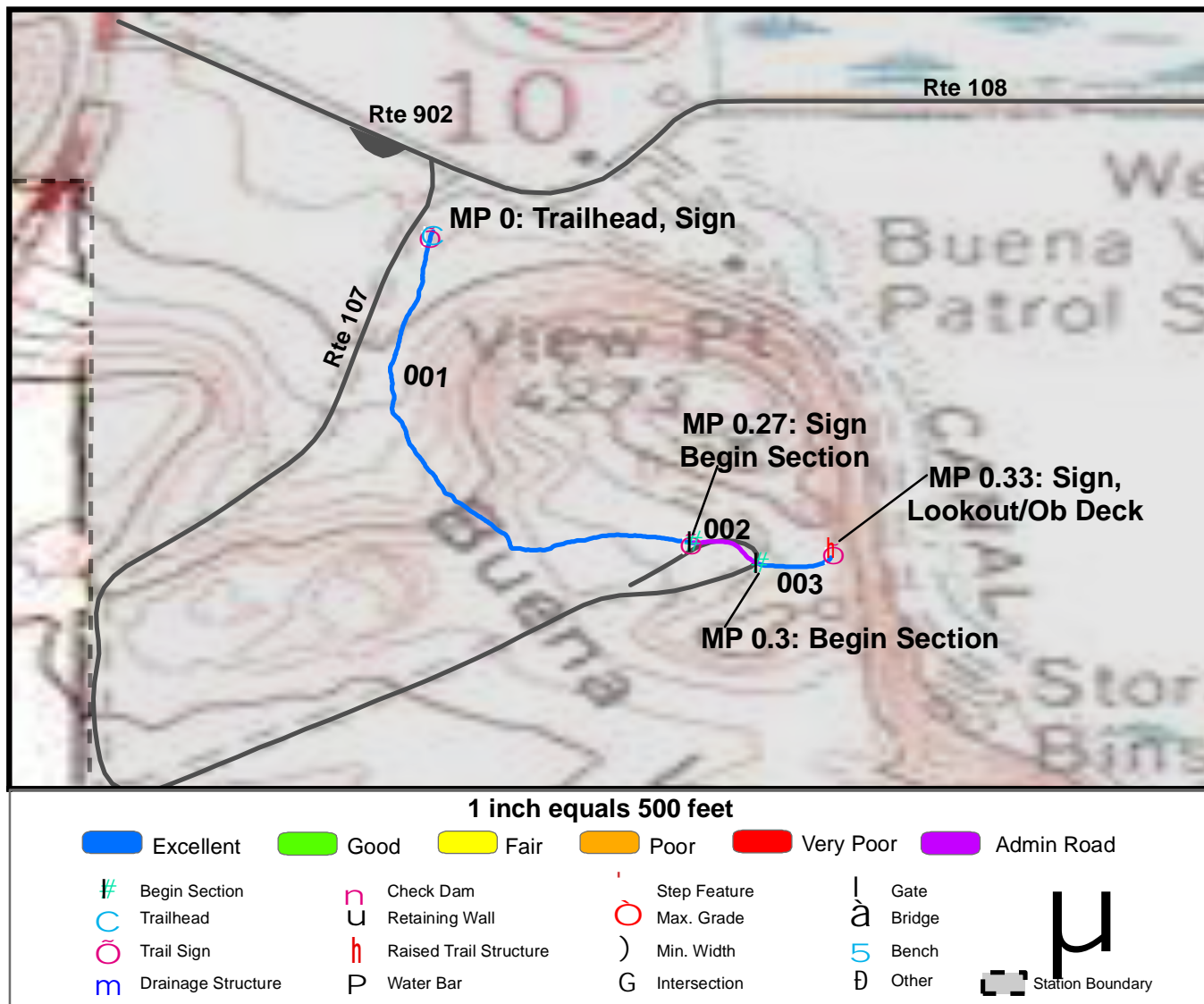
**TOTAL LENGTH:** 0.44 Miles

Section Number	001				
Section Length (miles)	0.44				
SAMMS Number	N/A				
Rating Date	6/25/2007				
<b>Trail Section Information</b>					
Trail Class	TC3				
Surface Type	Native				
Surface Firmness	Hard				
Width (inches)	60				
Average Grade (%)	2.9				
Average X-slope (%)	3				
<b>Trail Condition Information</b>					
Deferred Maintenance	\$0				
CRV	\$60700				
FCI	0				
Condition	Excellent				

## Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
\$0	\$60700	0	Excellent

# TRAIL CONDITION



**Trail Name:** Buena Vista Overlook Trail

**Refuge Name:** Malheur NWR

**Trail Number:** T307

**Region:** 1

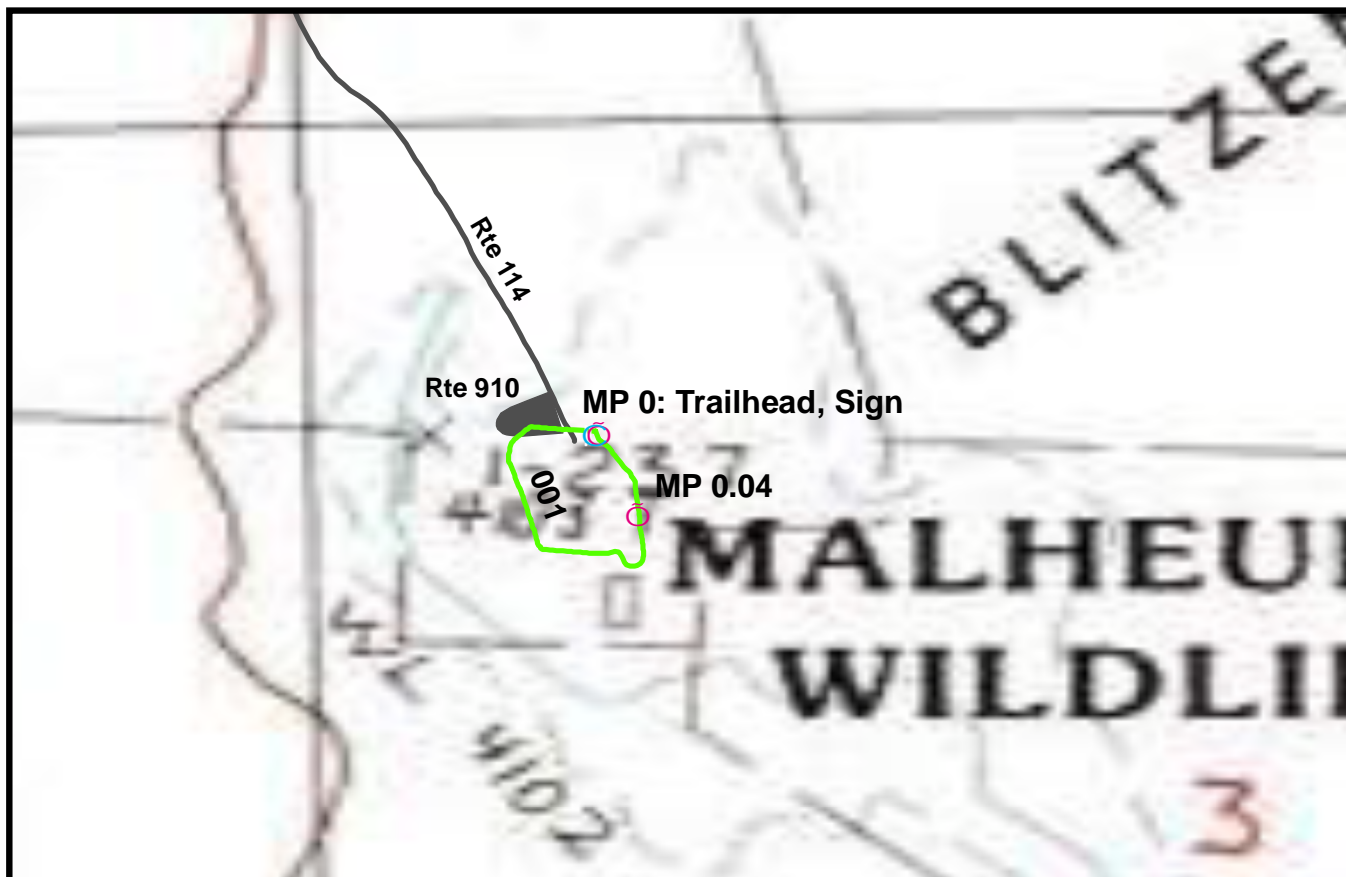
**TOTAL LENGTH:** 0.33 Miles


Section Number	001	002	003		
Section Length (miles)	0.27	0.03	0.03		
SAMMS Number	N/A	N/A	N/A		
Rating Date	6/25/2007	6/25/2007	6/25/2007		
<b>Trail Section Information</b>					
Trail Class	TC3	TC3	TC4		
Surface Type	Native	Admin Road	Gravel		
Surface Firmness	Hard	Hard	Hard		
Width (inches)	36	144	96		
Average Grade (%)	4.2	4.2	4.2		
Average X-slope (%)	3	3	3		
<b>Trail Condition Information</b>					
Deferred Maintenance	\$0	\$0	\$0		
CRV	\$22537	\$0	\$7343		
FCI	0	0	0		
Condition	Excellent	Not Rated	Excellent		

## Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
\$0	\$29880	0	Excellent

# TRAIL CONDITION



1 inch equals 500 feet					
<span style="color: blue;">■</span> Excellent	<span style="color: green;">■</span> Good	<span style="color: yellow;">■</span> Fair	<span style="color: orange;">■</span> Poor	<span style="color: red;">■</span> Very Poor	<span style="color: purple;">■</span> Admin Road
# Begin Section	n Check Dam	• Step Feature	l Gate	 Station Boundary	
C Trailhead	U Retaining Wall	○ Max. Grade	à Bridge		
○ Trail Sign	h Raised Trail Structure	) Min. Width	5 Bench		
m Drainage Structure	P Water Bar	G Intersection	ð Other		

**Trail Name:** Sod House Ranch Trail

**Refuge Name:** Malheur NWR

**Trail Number:** T308

**Region:** 1

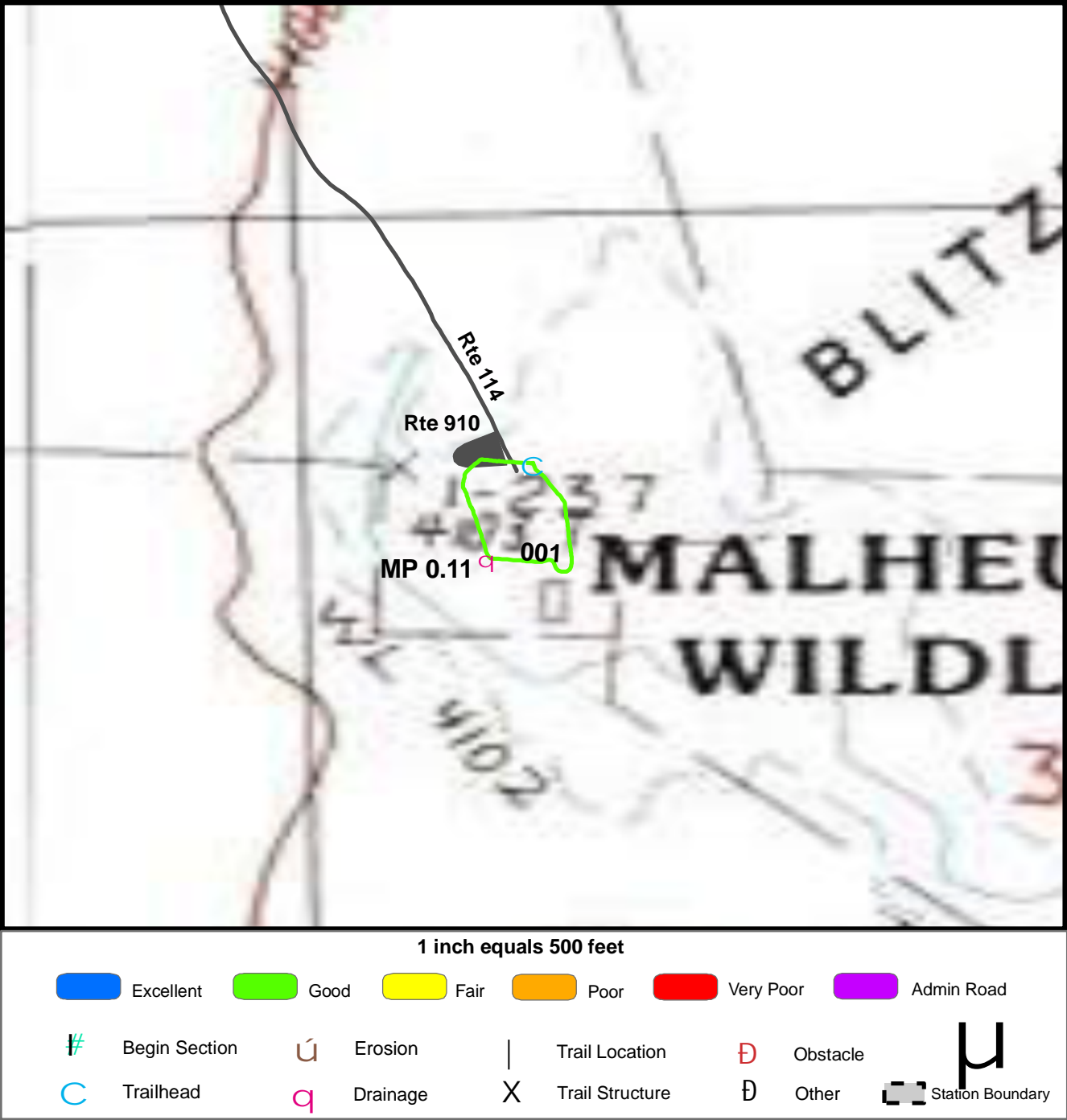
**TOTAL LENGTH:** 0.2 Miles

Section Number	001				
Section Length (miles)	0.2				
SAMMS Number	N/A				
Rating Date	6/26/2007				
<b>Trail Section Information</b>					
Trail Class	TC3				
Surface Type	Gravel				
Surface Firmness	Firm				
Width (inches)	72				
Average Grade (%)	0.7				
Average X-slope (%)	2.5				
<b>Trail Condition Information</b>					
Deferred Maintenance	\$1031				
CRV	\$36169				
FCI	0.029				
Condition	Good				

## Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
\$1031	\$36169	0.029	Good

TRAIL DEFICIENCY



Trail Name: Sod House Ranch Trail

Refuge Name: Malheur NWR

Trail Number: T308

Region: 1

TOTAL LENGTH: 0.2 Miles

Mile Post	0.11			
Section Number	001			
Photo Number	118			
Deficiency	Drainage			
Action	Build/Add			
Item	Culvert -lf			
Quantity	8			
Deferred Maintenance	\$1031			

# PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T300**  
STATION: Malheur NWR  
DATE: 6/25/2007



Photo # 4 - MP 0.0 - Trailhead

TRAIL NUMBER: **T300**  
STATION: Malheur NWR  
DATE: 6/25/2007



Photo # 3 - MP 0.0 - Sign

# PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T300**

STATION: Malheur NWR

DATE: 6/25/2007



Photo # 7 - MP 0.02 - Sign (Grouped Feature)

TRAIL NUMBER: **T300**

STATION: Malheur NWR

DATE: 6/25/2007



Photo # 6 - MP 0.1 - Sign

# PHOTOGRAPHIC SHEET

TRAIL NUMBER: T300  
STATION: Malheur NWR  
DATE: 6/25/2007



Photo # 5 - MP 0.11 - Sign

TRAIL NUMBER: T301  
STATION: Malheur NWR  
DATE: 6/25/2007



Photo # 17 - MP 0.0 - Trailhead

# PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T301**  
STATION: Malheur NWR  
DATE: 6/25/2007



Photo # 16 - MP 0.0 - Sign

TRAIL NUMBER: **T301**  
STATION: Malheur NWR  
DATE: 6/25/2007



Photo # 18 - MP 0.46 - Begin Section 002

# PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T302**  
STATION: Malheur NWR  
DATE: 6/25/2007



Photo # 26 - MP 0.0 - Trailhead

TRAIL NUMBER: **T302**  
STATION: Malheur NWR  
DATE: 6/25/2007



Photo # 25 - MP 0.0 - Sign

# PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T302**

STATION: Malheur NWR

DATE: 6/25/2007



Photo # 27 - MP 3.18 - Bridge

TRAIL NUMBER: **T303**

STATION: Malheur NWR

DATE: 6/25/2007



Photo # 37 - MP 0.0 - Trailhead

# PHOTOGRAPHIC SHEET

TRAIL NUMBER: T303  
STATION: Malheur NWR  
DATE: 6/25/2007



Photo # 36 - MP 0.01 - Sign

TRAIL NUMBER: T303  
STATION: Malheur NWR  
DATE: 6/25/2007



Photo # 38 - MP 0.11 - Begin Section 002

# PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T304**

STATION: Malheur NWR

DATE: 6/25/2007



Photo # 39 - MP 0.0 - Trailhead

TRAIL NUMBER: **T305**

STATION: Malheur NWR

DATE: 6/25/2007



Photo # 53 - MP 0.0 - Trailhead

# PHOTOGRAPHIC SHEET

TRAIL NUMBER: T305  
STATION: Malheur NWR  
DATE: 6/25/2007



Photo # 52 - MP 0.0 - Sign

TRAIL NUMBER: T305  
STATION: Malheur NWR  
DATE: 6/25/2007



Photo # 54 - MP 0.11 - Begin Section 002, Bridge

# PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T305**  
STATION: Malheur NWR  
DATE: 6/25/2007



Photo # 55 - MP 0.19 - Sign

TRAIL NUMBER: **T305**  
STATION: Malheur NWR  
DATE: 6/25/2007



Photo # 57 - MP 0.32 - Begin Section 003

# PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T306**  
STATION: Malheur NWR  
DATE: 6/25/2007



Photo # 62 - MP 0.0 - Trailhead

TRAIL NUMBER: **T306**  
STATION: Malheur NWR  
DATE: 6/25/2007



Photo # 61 - MP 0.0 - Sign

# PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T307**

STATION: Malheur NWR

DATE: 6/25/2007



Photo # 77 - MP 0.0 - Trailhead

TRAIL NUMBER: **T307**

STATION: Malheur NWR

DATE: 6/25/2007



Photo # 76 - MP 0.0 - Sign

# PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T307**  
STATION: Malheur NWR  
DATE: 6/25/2007



Photo # 78 - MP 0.27 - Sign

TRAIL NUMBER: **T307**  
STATION: Malheur NWR  
DATE: 6/25/2007



Photo # 79 - MP 0.27 - Begin Section 002

# PHOTOGRAPHIC SHEET

TRAIL NUMBER: T307

STATION: Malheur NWR

DATE: 6/25/2007



Photo # 80 - MP 0.3 - Begin Section 003

TRAIL NUMBER: T307

STATION: Malheur NWR

DATE: 6/25/2007



Photo # 81 - MP 0.33 - Sign

# PHOTOGRAPHIC SHEET

TRAIL NUMBER: **T308**

STATION: Malheur NWR

DATE: 6/26/2007



Photo # 116 - MP 0.0 - Trailhead

TRAIL NUMBER: **T308**

STATION: Malheur NWR

DATE: 6/26/2007



Photo # 115 - MP 0.0 - Sign (Grouped Feature)

# PHOTOGRAPHIC SHEET

TRAIL NUMBER: T308  
STATION: Malheur NWR  
DATE: 6/26/2007



Photo # 117 - MP 0.04 - Sign (Grouped Feature)

TRAIL NUMBER: T308  
STATION: Malheur NWR  
DATE: 6/26/2007



Photo # 118 - MP 0.11 - Drainage Deficiency