

# Bridge Inspection Report

00517

US 64/sec15/L7.4

over

LANGUILLE RELIEF



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**





Inspector:

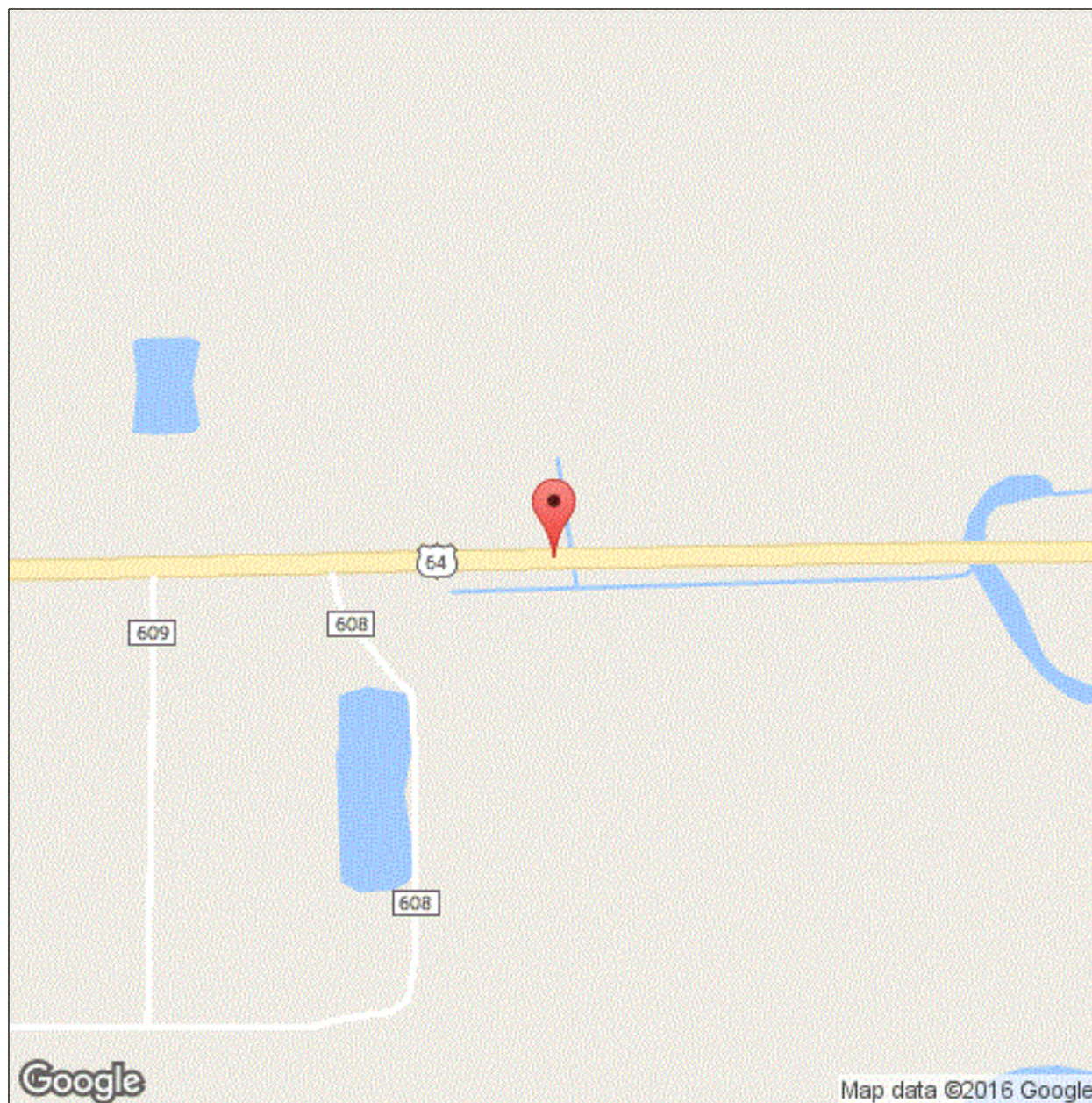
Structure Number: 00517

Inspection Date:

Facility Carried: US 64/sec15/L7.4

# Bridge Inspection Report

## Location Map



Latitude: 35.251648

Longitude: -90.910156



Inspector:

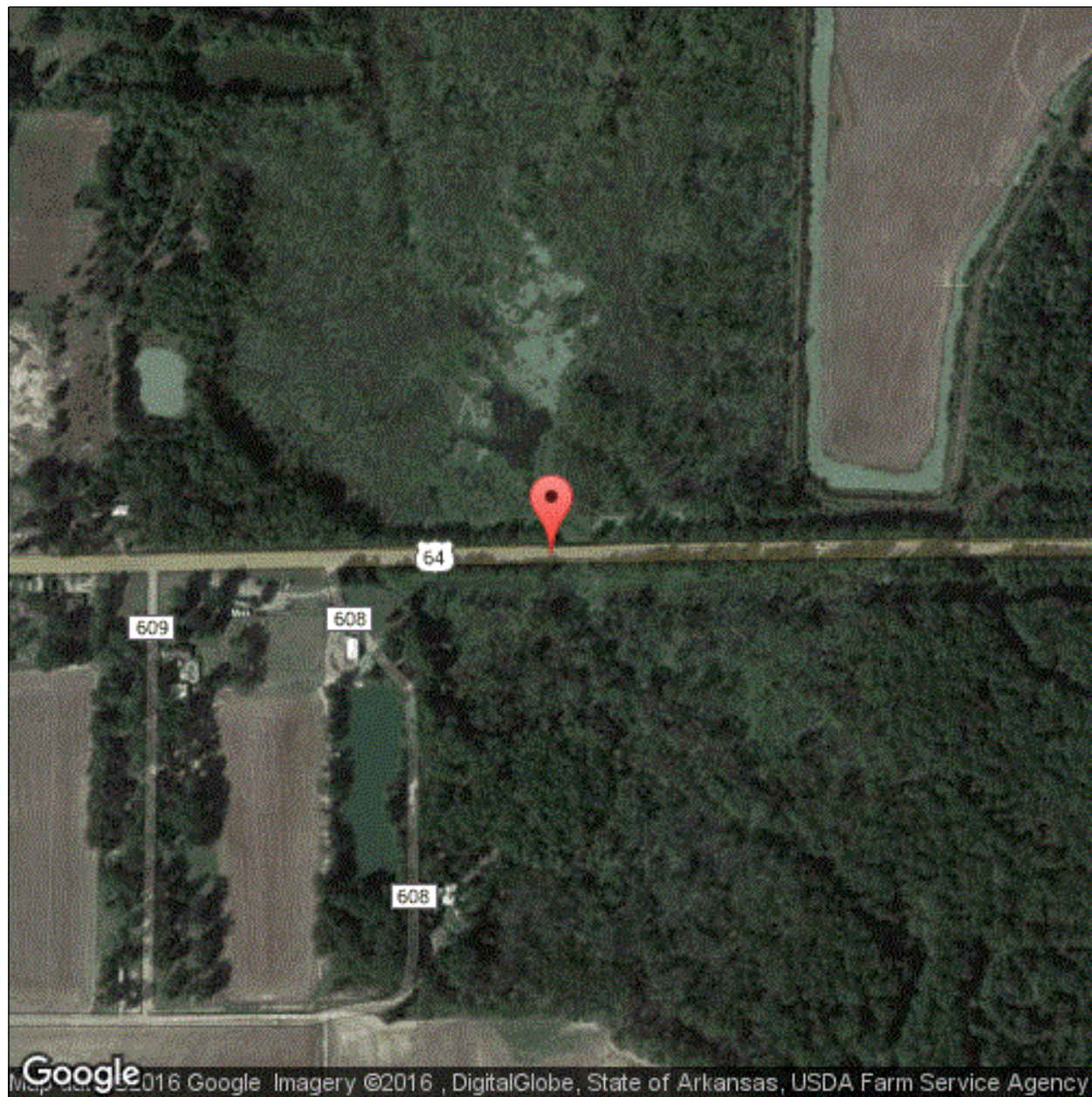
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Latitude: 35.251648

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## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	06/22/2016
(8) STRUCTURE NUMBER	00517	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 1 64 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	01 (3) COUNTY CODE 037	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	74540	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	LANGUILLE RELIEF	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	US 64/sec15/L7.4		
(9) LOCATION	6.55 MI W OF JCT SH 1 NO.		
(11) MILEPOINT 7.40	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000064150 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE	35.251648 (17) LONGITUDE -90.910156		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	7
A) KIND OF MATERIAL/DESIGN: 1 - Concrete		(59) SUPERSTRUCTURE	7 (60) SUBSTRUCTURE 7
B) TYPE OF DESIGN/CONSTR: 01 - Slab		(61) CHANNEL & CHANNEL PROTECTION	8 (62) CULVERT N
(44) STRUCTURE TYPE, APPROACH SPANS			
A) KIND OF MATERIAL/DESIGN: 0 - Other			
B) TYPE OF DESIGN/CONSTR: 00 - Other			
(45) NUMBER OF SPANS IN MAIN	5 (46) NUMBER OF APPROACH		
(107) DECK STRUCTURE TYPE	1 (108A) WEARING SURFACE		
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT	1963 (106) YEAR RECONSTRUCTED	(31) DESIGN LOAD	5
(42) TYPE OF SERVICE	ON 1 UNDER 5	(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES	ON 02 UNDER 00	(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC	4000 (19) BYPASS DETOUR LENGTH	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC	2014	(66) INVENTORY RATING	36.0
(109) AVERAGE DAILY TRUCK TRAFFIC	1	(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.)	30 (49) STRUCTURE LENGTH (ft.)	(67) STRUCTURAL EVALUATION	7
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 1.3 RIGHT 1.3	(68) DECK GEOMETRY	4
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	27.9	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.)	33.5	(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.)	40.0	(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN	0 (34) SKEW (DEG.)	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED	0 (10) INV RTE, MIN VERT CLEAR (ft.)	36A) BRIDGE RAILINGS:	0
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	30.8	36B) TRANSITIONS:	0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	36C) APPROACH GUARDRAIL:	0
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0	36D) APPROACH GUARDRAIL ENDS:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9	(113) SCOUR CRITICAL BRIDGES	5
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	SUFFICIENCY RATING	0 STATUS 79.1
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	06
(95) ROADWAY IMPROVEMENT COST (\$)	0	(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST	0	(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT	4549 (115) YEAR OF FUTURE ADT	(103) TEMP STRUCTURE	
	2028	(105) FEDERAL LANDS HIGHWAYS	0
		(110) DESIGNATED NATIONAL NETWORK	0
		(20) TOLL	3
		(21) MAINTENANCE RESPONSIBILITY	01
		(22) OWNER	01
		(37) HISTORICAL	5
		NAVIGATION DATA	
		(38) NAVIGATION CONTROL	0
		(111) PIER OR ABUTMENT PROTECTION	1
		(39) NAV VERT CLEARANCE (ft.)	0
		(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
		(40) NAV HORIZONTAL CLEARANCE (ft.)	0

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## Bridge Inspection Report

## Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
38 - Reinforced Concrete Slab	1- Ben.	5025	sq. ft.	4925	60	40	0
	BENT #2 LEFT AND RIGHT SIDES OF SLAB CRACKED AND SPALLED. Soffit has some hairline cracking with areas of light efflorescence and some areas of rust stains all spans. Span 2 wearing surface has 4 square feet of sound patches. Span 3 wearing surface has 2 square feet of sound patches. Wearing surface has cracked at bents. Sides of slab have vertical cracks spaced 1' 6" apart some with rust staining.						
1120 - Efflorescence/Rust Staining		70			30	40	
1130 - Cracking (RC and Other)		30			30		
510 - Wearing Surfaces		4200	sq. ft.	4026	174	0	0
3210 - Delamination/Spall/Patched Area/Pothole (Wearing Surfaces)		6			6		
3220 - Crack (Wearing Surface)		168			168		
215 - Reinforced Concrete Abutment	1- Ben.	75	ft.	75			
226 - Prestressed Concrete Pile	1- Ben.	20	each	20			
234 - Reinforced Concrete Pier Cap	1- Ben.	122	ft.	103	19	0	0
	BENT #2 CAP AHEAD FACE HAS 1' SPALL ABOVE PILE #2 & 2' SPALL ABOVE PILE #4. BENT #2 CAP BACK FACE ABOVE PILE #2 AT TOP HAS 4' SPALL WITH REBAR EXPOSED. BENT #2 CAP RIGHT & LEFT END IS SPALLED AT TOP WITH NO REBAR EXPOSED. BENT #3 CAP LEFT & RIGHT ENDS ARE SPALLED AT TOP WITH NO REBAR EXPOSED. BENT #3 CAP AHEAD FACE ABOVE PILE #1 HAS 6" POPOFFS WITH REBAR EXPOSED. BENT #3 CAP AHEAD FACE BETWEEN PILE #2 & 4 HAS LONGITUDINAL CRACK AT TOP BENT #3 CAP AHEAD FACE ABOVE PILE #4 HAS 1' DELAMINATION BENT #4 BACK FACE LEFT END HAS 2' SPALL WITH EXPOSED REBAR. Bent 4 backface over pile #2 w / 2' spall & exp. rebar BENT #5 BACK FACE RIGHT END HAS 2' SPALL WITH EXPOSED REBAR BENT #5 BACK FACE LEFT END IS CRACKED/ DELAMINATED BENT #5 CAP BOTTOM CHORD IN FRONT OF PILE #3 IS CRACKED/ DELAMINATED.						
1080 - Delamination/Spall/Patched Area		5			5		
1090 - Exposed Rebar		10			10		
1130 - Cracking (RC and Other)		4			4		
301 - Pourable Joint Seal	1- Ben.	201	ft.	201			

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Bridge Inspection Report

Element Inspection

330 - Metal Bridge Railing	1- Ben.	300	ft.	300			
	Abutment 2 right end post has 1' spall no rebar exposed. A few post have rebar exposed near base due to poor concrete coverage.						
515 - Steel Protective Coating		900	sq. ft.	900			

## Agency Inventory

**Structural**

BRIDGE GROUP

WEARING SURFACE THICKNESS  IN

WEATHERING STEEL No

PIN / HANGER No

STAY IN PLACE FORMS No

STEEL TONS  Tons(41) STRUCTURE  
OPEN/POSTED/CLOSED A**Location**ROAD / ROUTE NAME SECTION ZONE **Seismic**

SEISMIC

SEISMIC YEAR / ZONE **Notification**SCHOOL DISTRICT EMAIL OWNER EMAIL 

LATE REASON

**Load Po****Calculated**

CODE 4 VEHICLE (22 tons)

CODE 9 VEHICLE (31 tons)

CODE 5 VEHICLE (40 tons)

**Posted**

Bridge Beginning

CODE 4  TonsCODE 9  TonsCODE 5  Tons**Stip**

APHN

STIP

JOB NUMBER

PROG. JOB NUMBER

OLD BRIDGE NUMBER

NEW BRIDGE NUMBER

BRIDGE CONDITION INDEX

**Notes**

ABUTMENT #1 & 2 RIGHT & LEFT SIDES HAVE VEGETATION GROWING UNDER & BESIDE BRIDGE.  
ABUTMENT #2 SLOPE HAS 5 LARGE ANIMAL HOLES.  
Abutment 1 right side slope 20' from end of bridge has 4' long 2' deep erosion area.



Inspector:

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 06/22/2016

Priority: D - Routine

Work Code: N/A

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#### Deficiency Description:

Abutment 1 right side slope 20' from end of bridge has 4' long 2' deep erosion area.

#### Work Description:

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#### Date Repairs Completed:

#### Maintenance Comments:

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Stage: Open



PHOTO 1      Description      Abutment 1 right side slope 20' from end of bridge has 4' long 2' deep erosion area.

Inspector:

Structure Number: 00517

Inspection Date:

Facility Carried: US 64/sec15/L7.4

## Bridge Inspection Report

### Maintenance Needs

Date Reported: 6/13/2012 12:00:00 AM

Priority: D - Routine

Work Code: N/A

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Deficiency Description:

BENT #2 - 5 CAPS HAVE SEVERAL AREAS OF CRACKS, DELAMINATIONS & SPALLS WITH EXPOSED REBAR.

Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Monitor



PHOTO 1    Description    Bent 2 cap back face

Inspector:

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 6/18/2014 12:00:00 AM

Priority: D - Routine

Work Code: N/A

---

#### Deficiency Description:

LEFT & RIGHT GUTTERS HAVE VEGETATION GROWING IN THEM.

#### Work Description:

Sprayed since last inspection.

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Date Repairs Completed: 06/22/2016

#### Maintenance Comments:

Sprayed since last inspection.

---

Stage: Monitor



PHOTO 1    Description    Gutters vegetation has been removed.



Inspector:

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 6/18/2014 12:00:00 AM

Priority: D - Routine

Work Code: N/A

---

#### Deficiency Description:

ABUTMENT #1 & 2 RIGHT & LEFT SIDES HAVE VEGETATION GROWING UNDER & BESIDE BRIDGE.

#### Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Monitor



PHOTO 1      Description      Gutters vegetation has been removed.

Stage: Monitor



PHOTO 2      Description      Typical vegetation.

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## Bridge Inspection Report

### Maintenance Needs

Stage: Monitor



PHOTO 3      Description      Vegetation.

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## Bridge Inspection Report

### Maintenance Needs

Date Reported: 06/22/2016

Priority: D - Routine

Work Code: N/A

---

Deficiency Description:

ABUTMENT #2 SLOPE HAS 5 LARGE ANIMAL HOLES.

Work Description:

---

Date Repairs Completed:

Maintenance Comments:

---

Stage: Monitor



PHOTO 1      Description      Typical animal hole.