**90 Inspection Date** - 6/14/2016 **Inspector** - AGREINER (154)

# Inspection Report with SI&A Data

Structure Description: 33.14 Foot - Single Span Concrete Tee Beam

**2 District:** 09 **3 County:** Fleming **16 Latitude:** 38°25′17.00″ **7 Longitude:** 83°48′18.00″

7 Facility Carried KY-32

**Overlay Date:** 

6A Feature Intersected: MUD LICK CREEK9 Location: 1.2 MI EAST OF JCT KY 170

NBI	Χ
Element	Χ
Fracture Critical	
Underwater	
Special	

	NBI CONDITION RATINGS								
58	<b>58 Deck</b> : 4 <b>61 Channel</b> : 5								
59	Superstructure:	4	62 Culvert:	N					
<b>60</b>	Substructure:	5	Sufficiency Rating:	46.6					

	DESIGN						
Subs	tandard:	Weight					
43A	Main Span Material:	(1) Concrete					
43B	Main Span Design:	(04) Tee Beam					
45	Number of Spans Main:	1					
44A	Approach Span Material:	Not Applicable (0)					
44B	Approach Span Design:	Unknown (P)					
46	Number of Approach Spans:	: 0					
107	Deck Type:	(1) Concrete-Cast-in-Place					
108A	Wearing Surface:	(6) Bituminous					
108B	Membrane:	(0) None					
108C	Deck Protection:	(0) None					
Overl	ay Y/N:	Yes					
Overl	ау Туре:	Asphalt					
Overl	ay Thickness:	6.000 in					

	APPRAISAL						
36A	Bridge Railings:	(0) Substandard					
36B	Transitions	(0) Substandard					
36C	Approach Guardrail:	(1) Meets Standards					
36D	Approach Guardrail Ends:	(1) Meets Standards					
71	Waterway Adequacy:	(6) Equal Minimum					
72 Approach Alignment:		(8) Equal Desirable Crit					
92A Fracture Critical Inspection:		No					
92B Under Water Inspection:		No					
113	Scour Critical:	(8) Stable above footing					
Reco	mmended Scour Critical:	(3) SC- Unstable					

		LOAD RATINGS
63	Operating Type:	(2) Allowable Stress (AS)
64	Operating Rating:	64.0 tons
65	Inventory Type:	(2) Allowable Stress (AS)
66	Inventory Rating:	34.0 tons
Truc	k Capacity Type I:	28 tons
Truc	k Capacity Type II:	29 tons
Truc	k Capacity Type III:	31 tons
Truc	k Capacity Type IV:	55 tons

	GEOMETRIC DATA						
48	Max Length Span:	29.856 ft					
49	Structure Length:	33.136 ft					
32	Approach Roadway:	20.013 ft					
33	Median:	(0) No Median					
34	Skew:	30°					
35	Flare:	No Flare					
50A	Curb/Sidewalk Width L:	1.001 ft					
50B	Curb/Sidewalk Width R:	1.001 ft					
47	Horiz. Clearance:	19.029 ft					
51	Width Curb to Curb:	19.029 ft					
52	Width Out to Out:	22.500 ft					

Milepoint: 7.780

	ADMINISTRATIVE					
27	Year Built:	1929				
106	Year Reconstructed:	0				
42A	Type of Service On:	(1) Highway				
42B	Type of Service Under:	(5) Waterway				
37	Historical Significance:	(5) Not Eligible				
21	<b>Maintenance Responsibility</b>	:(01) State Hwy Agency				
22	Owner:	(01) State Hwy Agency				
101	Parallel Structure:	(N) No II Structure Exists				

	CLEARANCES							
10	Vert. Clearance:	99.999 ft						
53	Min. Vert. Clearance Over:	99.999 ft						
54A	Vert. Under Reference:	(N) Feature not hwy or RR						
54B	Min. Vert. Underclearance:	0.000 ft						
55A	Lateral Under Reference:	(N) Feature not hwy or RR						
55B	Min. Lat. Underclearance R:	0.000 ft						
<b>56</b>	Min. Lat. Underclearance L:	0.000 ft						

POSTINGS							
41 Posting Status:	(P) Posted For Load						
Signs Posted Cardinal:	Yes						
Signs Posted Non-Cardinal:	Yes						
Field Postings Gross:	tons						
Field Postings Type I:	tons						
Field Postings Type II:	tons						
Field Postings Type III:	31 tons						
Field Postings Type IV:	tons						

16: Re C	Conc Top Flange								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	745.57	670.57	90%	26	3%	49	7%	0	0%

The top of the top flange is not visible due to an asphalt wearing surface. The deck overhangs and underside have areas of cracking and spalling with exposed steel. The downstream end of the deck and overhang was recently patched near abutment 1. Heavy spalling is present in the downstream overhang adjacent to this recently patched area near abutment 1. Another area of heavy spalling is present in the downstream overhang ~ 7' from abutment 2. The downstream overhang has widespread minor sized cracking of heavy intensity. The upstream deck overhang near abutment 2 has some moderate to heavy spalling with exposed steel and a heavy intensity of minor sized cracking with efflorescence. The deck underside (particularly between beams 1&2 and 3&4 from upstream) has several shallow spalls with exposed steel, areas of delamination cracking, and minor sized cracking with efflorescence that ranges from moderate to heavy in intensity. The heaviest intensity of this cracking is present at abutment 1 adjacent to the downstream beam.

510: Wearing Surfaces									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	635.93	475.93	75%	30	5%	130	20%	0	0%

The asphalt wearing surface has some areas of cracking, particularly along the shoulders. A portion of the deck and overhang have been patched at the downstream end of abutment 1. Cold mix asphalt was placed along the roadway shoulder at this location. Another area was patched with cold mix asphalt along the downstream shoulder near mid-length of the bridge. Some rutting is present in the wheel paths of the west bound lane and a moderate to heavy intensity of minor sized cracking is present along the downstream shoulder. See photos.

3210: Del/Spall/Patch/Pot(Wear Surf)									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	1	0	0%	0	0%	1	100%	0	0%

See element 510.

3220: C	3220: Crack (Wearing Surface)											
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4			
SQ.FT	1	0	0%	1	100%	0	0%	0	0%			

See element 510.

1080: Delamination/Spall/Patched Area											
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4		
SQ.FT	1	0	0%	0	0%	1	100%	0	0%		

See element 16.

1130: Cracking (RC and Other)											
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4		
SQ.FT	1	0	0%	1	100%	0	0%	0	0%		

See element 16.

110: Re Conc Opn Girder/Beam											
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4		
FT	132	83	63%	25	19%	24	18%	0	0%		

The exterior face of the upstream beam has some minor to moderate sized longitudinal cracking (moderate intenstiy) at the beams ends and near midspan. It also has some honeycombing/spalling at abutment 2. Throughout this beam there are some light vertical cracks. The interior face of the upstream beam has several shallow spalls with exposed steel throughout its length. Three locations of moderate to heavy spalling are present in the lower/interior face of this beam. These spalls are located in the middle third of the beam and have some exposed primary longitudinal reinforcement. Some section loss is present within this longitudinal steel (10-15%). The downstream face of Beam 2 from upstream has minor delamination and a couple of very small shallow spalls near Abutment 2. The interior face of the downstream exterior beam has several minor sized cracks of heavy intensity with extensive efflorescence and some shallow spalling near abutment 1. The interior face of this beam near Abutment 2 has a moderate intensity of minor cracking with efflorescence. The exterior face of the downstream beam has areas of cracking (moderate to heavy intensity) with efflorescence and a few shallow to moderate spalls with exposed steel. The most advanced deterioration of this beam is in the exterior face near abutment 1. At this location there is minor sized widespread cracking of heavy intensity with heavy efflorescence and some shallow spalling. This begins at abutment 1 and extends out ~ 9 ft. Otherwise, both the exterior beams have some discoloration below the drain outlets. See photos.

1080: D	1080: Delamination/Spall/Patched Area											
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4			
FT	1	0	0%	0	0%	1	100%	0	0%			

See element 110.

### **Inspection Report with SI&A Data**

1090: Exposed Rebar											
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4		
FT	1	0	0%	0	0%	1	100%	0	0%		

See element 110.

1130: Cracking (RC and Other)											
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4		
FT	1	0	0%	0	0%	1	100%	0	0%		

See element 110.

215: Re Conc Abutment											
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4		
FT	104	0	0%	102	98%	2	2%	0	0%		

Abutment 1 has a vertical crack below beam 3 from upstream that typically measures  $\sim 3/16$  in. wide, but, is up to 1/4 in. at the widest location. This crack extends from the groundline to the top. This abutment also has some moderate scaling along the flowline. Some minor cracking of moderate intensity and moderate to heavy spalling are present at the upstream end of abutment 1s wingwall. There is also some minor cracking with heavy efflorescence below the upstream beam. Shallow spalling, heavy efflorescence, and staining are present under the downstream exterior beam. Abutment 2 has a  $\sim 3/16$  in. wide vertical crack with seepage below the upstream exterior beam and it extends from the beam to the groundline. The upstream wingwall of Abutment 2 has some minor cracking with shallow spalling along the top. A small spall is present along the top of the abutment near beam 3 from upstream. The downstream abutment 2 wingwall has some minor to moderate cracking of moderate to heavy intensity. The more moderate sized cracking is at the top of the haunch. See photos.

1130: Cracking (RC and Other)										
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4	
FT	1	0	0%	1	100%	0	0%	0	0%	

See element 215.

Inspection Report with SI&A Data

330: Metal Bridge Railing										
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4	
FT	66	0	0%	58	88%	8	12%	0	0%	

The downstream rail has new impact damage since the last inspection. The downstream rail near abutment 2 is pushed out and the north guardrail post and post 2 from the north are disconnected. Post 3s connection to the curb is bent back. The rail posts are mostly rusted and surface rust is scattered throughout the rail.

515: Steel Protective Coating											
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4		
FT	100.58	0	0%	0	0%	100.58	100%	0	0%		

See element 330.

1020: Connection											
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4		
FT	1	0	0%	0	0%	1	100%	0	0%		

See element330.

803: Cu	rb								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(LF)	66	48	73%	12	18%	6	9%	0	0%

The downstream curb has new impact damage at abutment 2. The end is cracked, broken, and spalled with exposed reinforcement steel. The guardrail post at abutment 2 and post 2 from the abutment are no longer connected to the curb. This is a newly repaired curb and otherwise it has some moderate cracking and spalling at rail post 3 from abutment 1. The upstream curb has some minor cracking and moderate spalling near abutment 2. The upstream curb has some some areas of minor to moderate scaling. Moderate cracking/scaling/spalling is present near the abutments.

# Inspection Report with SI&A Data

1080: Delamination/Spall/Patched Area									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(LF)	1	0	0%	0	0%	1	100%	0	0%

See element 803.

1130: C	racking (RC and	Other)							
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(LF)	1	0	0%	1	100%	0	0%	0	0%

See element 803.

850: 2nd	d Elem								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	0	0%	1	100%	0	0%

The diaphragms between the beams at the abutments have some cracking with efflorescence (moderate to heavy intensity) especially at the downstream ends of both abutments and the upstream end of abutment 2. A couple of small to moderate spalls are present at the downstream end of abutment 1 and the upstream end of abutment 2.

852: Dra	ains								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	0	0%	0	0%	1	100%

This bridge appears to have 3 drains along each side. The drains are mostly blocked with asphalt. A few drains are open along the downstream curb.

Inspection Report with SI&A Data

856: Ch	nan Drift								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	1	100%	0	0%	0	0%

Drift (silt, mud, and vegetation) have built up under the bridge along abutment 2. This is due to the poor channel alignment and all normal flow is along abutment 1.

858: Ch	nannel Alignment								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	0	0%	1	100%	0	0%

The stream makes a sharp turn at the upstream end of the structure. It is essentially being forced to flow under the bridge by the gabion baskets and concrete slurry just upstream of abutment 1. All normal flow is along abutment 1 and drift and vegetation are building up along the opposite bank. See photos.

860: Erd	osion Ctrl/Prt								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	1	100%	0	0%	0	0%

The erosion control (Gabion baskets and concrete slurry) placed along the west embankment just upstream of abutment 1 appears to be functioning as designed. The stream makes a sharp turn at the upstream end of the structure and is essentially being forced under the bridge by these baskets.

### STRUCTURE NOTES

60.1

#### **INSPECTION NOTES**

Bridge is posted at Type 3, 31 tons. Both signs are in place at this time. This structure is scheduled to be replaced in 2017. Bridge Inspection by A.Greiner.

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Action: 1015 - Bridge Rail-Repair

The downstream railing and curb need to be repaired. Generated by user "agreiner" on 6/15/2016

**90 Inspection Date** - 6/8/2015 **Inspector** - AGREINER (154)

### **Inspection Report with SI&A Data**

Structure Description: 33.14 Foot - Single Span Concrete Tee Beam

**2 District:** 09 **3 County:** Fleming **16 Latitude:** 38°25′17.00″ **7 Longitude:** 83°48′18.00″

7 Facility Carried KY-32

6A Feature Intersected: MUD LICK CREEK9 Location: 1.2 MI EAST OF JCT KY 170

NBI	Х
Element	Χ
Fracture Critical	
Underwater	
Special	

	NBI CONDITION RATINGS								
58	Deck:	4	61 Channel:	5					
59	Superstructure:	4	62 Culvert:	N					
60	O Substructure: 5 Sufficiency Rating: 46.6								

**DESIGN** 

Subs	tandard:	Weight
43A	Main Span Material:	(1) Concrete
43B	Main Span Design:	(04) Tee Beam
45	Number of Spans Main:	1
44A	Approach Span Material:	Not Applicable (0)
44B	Approach Span Design:	Unknown (P)
46	Number of Approach Spans:	: 0
107	Deck Type:	(1) Concrete-Cast-in-Place
108A	Wearing Surface:	(6) Bituminous
108B	Membrane:	(0) None
108C	Deck Protection:	(0) None
Overl	ay Y/N:	Yes
Overl	ay Type:	Asphalt
Overl	ay Thickness:	6.000 in
Overl	ay Date:	

	APPRA	ISAL
36A	Bridge Railings:	(0) Substandard
36B	Transitions	(0) Substandard
36C	Approach Guardrail:	(1) Meets Standards
36D	Approach Guardrail Ends:	(1) Meets Standards
71	Waterway Adequacy:	(6) Equal Minimum
<b>72</b>	Approach Alignment:	(8) Equal Desirable Crit
92A	Fracture Critical Inspection:	No
92B	Under Water Inspection:	No
113	Scour Critical:	(8) Stable above footing
Reco	mmended Scour Critical:	(3) SC- Unstable

		LOAD RATINGS
63	Operating Type:	(2) Allowable Stress (AS)
64	Operating Rating:	64.0 tons
65	Inventory Type:	(2) Allowable Stress (AS)
66	Inventory Rating:	34.0 tons
Truc	k Capacity Type I:	28 tons
Truc	k Capacity Type II:	29 tons
Truc	k Capacity Type III:	31 tons
Truc	k Capacity Type IV:	55 tons
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	GEOMETRI	C DATA
48	Max Length Span:	29.856 ft
49	Structure Length:	33.136 ft
32	Approach Roadway:	20.013 ft
33	Median:	(0) No Median
34	Skew:	30°
35	Flare:	No Flare
50A	Curb/Sidewalk Width L:	1.001 ft
50B	Curb/Sidewalk Width R:	1.001 ft
47	Horiz. Clearance:	19.029 ft
51	Width Curb to Curb:	19.029 ft
<b>52</b>	Width Out to Out:	22.500 ft

Milepoint: 7.780

	ADMINIST	RATIVE
27	Year Built:	1929
106	Year Reconstructed:	0
42A	Type of Service On:	(1) Highway
42B	Type of Service Under:	(5) Waterway
37	Historical Significance:	(5) Not Eligible
21	<b>Maintenance Responsibility</b>	:(01) State Hwy Agency
22	Owner:	(01) State Hwy Agency
101	Parallel Structure:	(N) No II Structure Exists

	CLEARANCES								
10	Vert. Clearance:	99.999 ft							
53	Min. Vert. Clearance Over:	99.999 ft							
54A	Vert. Under Reference:	(N) Feature not hwy or RR							
54B	Min. Vert. Underclearance:	0.000 ft							
55A	Lateral Under Reference:	(N) Feature not hwy or RR							
55B	Min. Lat. Underclearance R:	0.000 ft							
56	Min. Lat. Underclearance L:	0.000 ft							

POST	TINGS
41 Posting Status:	(P) Posted For Load
Signs Posted Cardinal:	Yes
Signs Posted Non-Cardinal:	Yes
Field Postings Gross:	tons
Field Postings Type I:	tons
Field Postings Type II:	tons
Field Postings Type III:	31 tons
Field Postings Type IV:	tons

16: Re	Conc Top Flange	•							
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	745.57	618.82	83%	126.75	17%	0	0%	0	0%

The top of the top flange is not visible due to an asphalt wearing surface. The deck overhangs and underside have areas of cracking and spalling with exposed steel. The downstream end of the deck and overhang was recently patched near abutment 1. Heavy spalling is present in the downstream overhang adjacent to this recently patched area near abutment 1. Another area of heavy spalling is present in the downstream overhang ~ 7' from abutment 2. The downstream overhang has widespread minor sized cracking of heavy intensity. The upstream deck overhang near abutment 2 has some heavy spalling with exposed steel and a heavy intensity of minor sized cracking with efflorescence. The deck underside (particularly between beams 1&2 and 3&4 from upstream) has several shallow spalls with exposed steel, areas of delamination cracking, and minor sized cracking with efflorescence that ranges from moderate to heavy in intensity. The heaviest intensity of this cracking is present at abutment 1 adjacent to the downstream beam.

510: We	earing Surfaces								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	635.93	475.93	75%	30	5%	130	20%	0	0%

The asphalt wearing surface has some areas of cracking, especially along the shoulders. A portion of the deck and overhang have been patched at the downstream end of abutment 1. Cold mix asphalt was placed along the roadway shoulder at this location. Another area was patched with cold mix asphalt along the downstream shoulder near mid-length of the bridge. Some rutting is present in the wheel paths of the west bound lane. See photos.

3220: C	rack (Wearing S	urface)							
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	1	1	100%	0	0%	0	0%	0	0%

See element 510.

90 Inspection Date - 6/8/2015 Inspector - AGREINER (154)

Inspection Report with SI&A Data

110: Re	Conc Opn Girde	r/Beam							
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	132	83	63%	25	19%	24	18%	0	0%

The upstream face of the upstream beam has some minor sized longitudinal cracking (moderate intenstiy) at the beams ends and near midspan. It also has some honeycombing/spalling at abutment 2. Throughout this beam there are some light vertical cracks. The downstream face of the upstream beam has several shallow spalls with exposed steel throughout its length. Three locations of moderate to heavy spalling are present in the lower/downstream face of this beam. These spalls are located in the middle third of the beam. The spalls on the bottom face of the beam near midspan have exposed some primary longitudinal reinforcement. Some section loss is present with this longitudinal steel (up to 10%). The downstream face of Beam 2 from upstream has a couple of very small shallow spalls near Abutment 2. The upstream face of the downstream exterior beam has several minor sized cracks of heavy intensity with extensive efflorescence and some shallow spalling near abutment 1. The interior face of this beam near Abutment 2 has a moderate amount of minor cracking with efflorescence. The exterior face of the downstream beam has areas of cracking (moderate to heavy intensity) with efflorescence and a few shallow spalls with exposed steel. The most advanced deterioration of this beam is in the exterior face near abutment 1. At this location there is minor sized widespread cracking of heavy intensity with heavy efflorescence and some shallow spalling. This begins at abutment 1 and extends out ~ 6 ft.. Otherwise, both the exterior beams have some discoloration below the drain outlets. See photos.

1080: De	elamination/Spal	II/Patched Area							
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	1	1	100%	0	0%	0	0%	0	0%

See element 110.

1090: Ex	xposed Rebar								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	1	1	100%	0	0%	0	0%	0	0%

See element 110.

1130: Cracking (RC and Other)										
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4	
FT	1	1	100%	0	0%	0	0%	0	0%	

See element 110.

215: Re	Conc Abutment								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	104	0	0%	102	98%	2	2%	0	0%

Abutment 1 has a vertical crack below beam 3 from upstream that typically measures ~ 3/16 in. wide, but, up to 1/4 in. at the widest location. This crack extends from the groundline to the top. This abutment also has some moderate scaling along the flowline. Some minor cracking and moderate to heavy spalling are present at the upstream end of Abutment 1s wingwall. There is also some minor cracking with heavy efflorescence below the upstream beam. Shallow spalling, heavy efflorescence, and staining are present under the downstream exterior beam. Abutment 2 has a ~ 3/16 in. wide vertical crack with seepage below the upstream exterior beam and it extends from the groundline to the top. The upstream wingwall of Abutment 2 has some light cracking with shallow spalling along the top. A small spall is present along the top of the abutment near beam 3 from upstream. The downstream abutment 2 wingwall has some minor to moderate cracking of moderate to heavy intensity. The more moderate sized cracking is at the top of the haunch. See photos.

1130: C	racking (RC and	Other)							
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	1	0	0%	1	100%	0	0%	0	0%

See element 215.

330: Metal Bridge Railing										
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4	
FT	66	0	0%	66	100%	0	0%	0	0%	

The downstream deck and curb have been repaired and the guardrail has been reattached. The railing is dulling and has some light surface rust. The rail posts have become mostly rusty.

515: Ste	eel Protective Co	ating							
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	100.58	0	0%	0	0%	100.58	100%	0	0%

See element 330.

Substandard (12 months) - Primary Inspection Type

# Inspection Report with SI&A Data

803: Cu	rb								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(LF)	66	62	94%	4	6%	0	0%	0	0%

The upstream curb has some minor cracking and moderate spalling near abutment 2. The upstream curb also has minor cracking/scaling/spalling at the end near abutment 1. A new downstream curb was poured before the last inspection. It has some moderate cracking and spalling at rail post 3 from abutment 1. Otherwise, it is in satisfactory condition.

1130: Cracking (RC and Other)										
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4	
(LF)	1	1	100%	0	0%	0	0%	0	0%	

See element 803.

850: 2nd	d Elem								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	0	0%	1	100%	0	0%

The diaphragms between the beams at the abutments have some cracking with efflorescence (moderate to heavy intensity) especially at the downstream ends of the abutments and the upstream end of abutment 2. A couple of small to moderate spalls are present at the downstream end of abutment 1 and the upstream end of abutment 2.

852: Dra	ains								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	0	0%	0	0%	1	100%

This bridge appears to have 3 drains along each side. The drains are mostly blocked due to the asphalt overlay.

Substandard (12 months) - Primary Inspection Type

Inspection Report with SI&A Data

856: Ch	nan Drift								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	1	100%	0	0%	0	0%

Drift (silt, mud, and vegetation) have built up under the bridge along abutment 2. This is due to the poor channel alignment and all normal flow is along abutment 1.

858: Ch	annel Alignment								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	0	0%	1	100%	0	0%

The stream makes a sharp turn at the upstream end of the structure. It is essentially being forced to flow under the bridge by the gabion baskets and concrete slurry just upstream of abutment 1. All normal flow is along abutment 1 and drift and vegetation are building up along the opposite bank. See photos.

860: Erosion Ctrl/Prt									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	1	100%	0	0%	0	0%

The erosion control (Gabion baskets and concrete slurry) placed along the west embankment just upstream of abutment 1 appear to be functioning as designed. The stream makes a sharp turn at the upstream end of the structure and is essentially being forced under the bridge by these baskets.

## STRUCTURE NOTES

-60.1

#### **INSPECTION NOTES**

Bridge is posted at Type 3, 31 tons. Both signs are in place at this time. This structure is scheduled to be replaced soon. It has BRO Funding for construction in 2016. Bridge Inspection by A.Greiner and K.Shugars.

	WORK
Action:	-

90 Inspection Date - 6/13/2014 Inspector - AGREINER (154)

### Inspection Report with SI&A Data

Structure Description: 33.14 Foot - Single Span Concrete Tee Beam

2 District: 09 3 County: Fleming **16 Latitude:** 38°25′17.00″ **7 Longitude:** 83°48′18.00″

7 Facility Carried KY-32

**Overlay Date:** 

6A Feature Intersected: MUD LICK CREEK 9 Location: 1.2 MI EAST OF JCT KY 170

NBI	Χ
Element	Χ
Fracture Critical	
Underwater	
Special	

	NBI CONDITION RATINGS						
<b>5</b> 8	Deck:	4	61 Channel:	5			
<b>59</b>	Superstructure:	4	62 Culvert:	N			
<b>60</b>	Substructure:	5	Sufficiency Rating:	46.5			

	DESIGN						
Subs	tandard:	Weight					
43A	Main Span Material:	(1) Concrete					
43B	Main Span Design:	(04) Tee Beam					
45	Number of Spans Main:	1					
44A	Approach Span Material:	Not Applicable (0)					
44B	Approach Span Design:	Unknown (P)					
46	Number of Approach Spans:	: 0					
107	Deck Type:	(1) Concrete-Cast-in-Place					
108A	Wearing Surface:	(6) Bituminous					
108B	Membrane:	(0) None					
108C	Deck Protection:	(0) None					
Overl	ay Y/N:	Yes					
Overl	ау Туре:	Asphalt					
Overl	ay Thickness:	6.000 in					

	APPRAISAL					
36A	Bridge Railings:	(0) Substandard				
36B	Transitions	(0) Substandard				
36C	Approach Guardrail:	(1) Meets Standards				
36D	Approach Guardrail Ends:	(1) Meets Standards				
71	Waterway Adequacy:	(6) Equal Minimum				
<b>72</b>	Approach Alignment:	(8) Equal Desirable Crit				
92A	Fracture Critical Inspection:	No				
92B	Under Water Inspection:	No				
113	Scour Critical:	(8) Stable above footing				
Reco	mmended Scour Critical:	(3) SC- Unstable				

		LOAD RATINGS
63	Operating Type:	(2) Allowable Stress (AS)
64	Operating Rating:	64.0 tons
65	Inventory Type:	(2) Allowable Stress (AS)
66	Inventory Rating:	34.0 tons
Truck Capacity Type I:		28 tons
Truc	k Capacity Type II:	29 tons
Truc	k Capacity Type III:	31 tons
Truc	k Capacity Type IV:	55 tons

	GEOMETRIC DATA						
48	Max Length Span:	29.856 ft					
49	Structure Length:	33.136 ft					
32	Approach Roadway:	20.013 ft					
33	Median:	(0) No Median					
34	Skew:	30°					
35	Flare:	No Flare					
50A	Curb/Sidewalk Width L:	1.001 ft					
50B	Curb/Sidewalk Width R:	1.001 ft					
47	Horiz. Clearance:	19.029 ft					
51	Width Curb to Curb:	19.029 ft					
52	Width Out to Out:	22.500 ft					

Milepoint: 7.780

	ADMINISTRATIVE					
27	Year Built:	1929				
106	Year Reconstructed:	0				
42A	Type of Service On:	(1) Highway				
42B	Type of Service Under:	(5) Waterway				
37	Historical Significance:	(5) Not Eligible				
21	<b>Maintenance Responsibility</b>	:(01) State Hwy Agency				
22	Owner:	(01) State Hwy Agency				
101	Parallel Structure:	(N) No II Structure Exists				

	CLEARANCES						
10	Vert. Clearance:	99.999 ft					
<b>53</b>	Min. Vert. Clearance Over:	99.999 ft					
54A '	Vert. Under Reference:	(N) Feature not hwy or RR					
54B	Min. Vert. Underclearance:	0.000 ft					
55A	Lateral Under Reference:	(N) Feature not hwy or RR					
55B	Min. Lat. Underclearance R:	0.000 ft					
<b>56</b>	Min. Lat. Underclearance L:	0.000 ft					

POSTINGS					
41 Posting Status:	(P) Posted For Load				
Signs Posted Cardinal:	Yes				
Signs Posted Non-Cardinal:	Yes				
Field Postings Gross:	tons				
Field Postings Type I:	tons				
Field Postings Type II:	tons				
Field Postings Type III:	31 tons				
Field Postings Type IV:	tons				

**90 Inspection Date -** 6/13/2014 **Inspector -** AGREINER (154)

# Inspection Report with SI&A Data

16: Re C	Conc Top Flange								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	745.57	618.82	83%	126.75	17%	0	0%	0	0%

Asphalt wearing surface has some areas of cracking, especially along the shoulders. A portion of the deck and overhang have been patched at the downstream end of abutment 1. Cold mix aphalt was placed along the roadway shoulder at this location. A moderate pothole is present in the wearing surface along the downstream shoulder near mid-length of the bridge.

510: Wearing Surfaces									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	635.93	604.14	95%	31.8	5%	0	0%	0	0%

7359: D	O NOT USE Con	crete Efflorescen	ıc						
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	10.76	10.76	100%	0	0%	0	0%	0	0%

Asphalt wearing surface has some areas of cracking, especially along the shoulders. A portion of the deck and overhang have been patched at the downstream end of abutment 1. Cold mix aphalt was placed along the roadway shoulder at this location. A moderate pothole is present in the wearing surface along the downstream shoulder near mid-length of the bridge.

### Inspection Report with SI&A Data

110: Re	Conc Opn Girde	er/Beam							
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	132	85	64%	25	19%	22	17%	0	0%

The upstream face of the upstream beam has some minor sized longitudinal cracking (moderate intenstiy) at the beam ft.s ends and near midspan. It also has some honeycombing at abutment 2. Throughout this beam there are some light vertical cracks. The downstream face of the upstream beam has several shallow spalls with exposed steel throughout its length. Three locations of moderate to heavy spalling are present in the lower/downstream face of this beam. These spalls are located in the middle third of the beam. The spalls on the bottom face of the beam near midspan have exposed some primary longitudinal reinforcement. Some section loss is present with this longitudinal steel (10%). The downstream face of Beam 2 from upstream has a couple of very small shallow spalls near Abutment 2. The upstream face of the downstream exterior beam has several minor sized cracks of heavy intensity with extensive efflorescence and some shallow spalling near abutment 1. The interior face of this beam near Abutment 2 has a moderate amount of minor cracking with efflorescence. The exterior face of the downstream beam has areas of cracking with efflorescence and a few shallow spalls with exposed steel. The most advanced deterioration of this beam is in the exterior face near abutment 1. There is minor sized widespread cracking of heavy intensity with heavy efflorescence and some shallow spalling. This begins at abutment 1 and extends out ~ 6 ft.. Otherwise, both the exterior beams have some discoloration below the drain outlets.

215: Re	Conc Abutment								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	104	0	0%	102	98%	2	2%	0	0%

Abutment 1 has a vertical crack below beam 3 from upstream that typically measures 1/8 in. wide, but, up to 1/4 in. at the widest location. This crack extends from the groundline to the top. This abutment also has some scaling along the flowline. Some light cracking and moderate spalling are present at the upstream end of Abutment 1 ft.s wingwall. There is also some shallow spalling and heavy staining under the downstream exterior beam. Abutment 2 has a ~1/8 in. vertical crack with seepage below the upstream exterior beam and it extends from the groundline to the top. The upstream wingwall of Abutment 2 has some light cracking with shallow spalling along the top. The downstream wingwall has some areas of light cracking with more moderate cracking at the top of the haunch. See photos.

330: Me	tal Bridge Railin	g							
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	66	23	35%	43	65%	0	0%	0	0%

The downstream deck and curb have been repaired and the guardrail has been reattached. The railing has some light surface rust and the posts are becoming mostly rusty.

515: Ste	515: Steel Protective Coating									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4	
FT	0.3	0.3	100%	0	0%	0	0%	0	0%	

803: Cu	rb								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(LF)	66	62	94%	4	6%	0	0%	0	0%

The upstream curb has some light scaling/spalling at the ends near the abutments. A new downstream curb has been formed and poured. It is in satisfactory condition.

850: 2nd	d Elem								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	0	0%	1	100%	0	0%

The diaphragms between the beams at the abutments have some cracking with efflorescence. A couple of small to moderate spalls are present at the downstream end of abutment 1 and the upstream end of abutment 2.

852: Dra	ains								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	0	0%	0	0%	1	100%

This bridge appears to have 3 drains along each side. The upstream drain near abutment 1 and the downstream drain near midspan are mostly blocked and the remaining drains are completely blocked by the asphalt overlay.

Substandard (12 months) - Primary Inspection Type

Inspection Report with SI&A Data

856: Ch	nan Drift								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	1	100%	0	0%	0	0%

Drift (silt, mud, and vegetation) have built up under the bridge along abutment 2. This is due to the poor channel alignment.

858: C	hannel Alignment	t							
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	0	0%	1	100%	0	0%

The stream makes a sharp turn at the upstream end of the structure. It is essentially being forced to flow under the bridge by the gabion baskets and concrete slurry just upstream of abutment 1. All normal flow is along abutment 1 and drift and vegetation are building up along the opposite bank. See photos.

860: E	rosion Ctrl/Prt								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	1	100%	0	0%	0	0%

The erosion control (Gabion baskets and concrete slurry) placed along the west embankment just upstream of abutment 1 appear to be functioning as designed. The stream makes a sharp turn at the upstream end of the structure and is essentially being forced under the bridge by these baskets.

#### STRUCTURE NOTES

-60.1

#### **INSPECTION NOTES**

Bridge is posted at Type 3, 31 tons. Both signs are in place at this time. Bridge Inspection by A.Greiner.

	WORK
Action:	-

**90 Inspection Date -** 6/17/2013 **Inspector -** BCOMBS (217)

### **Inspection Report with SI&A Data**

Structure Description: 33.14 Foot - Single Span Concrete Tee Beam

**2 District:** 09 **3 County:** Fleming **16 Latitude:** 38°25′17.00″ **7 Longitude:** 83°48′18.00″

7 Facility Carried KY-32

**Overlay Date:** 

6A Feature Intersected: MUD LICK CREEK9 Location: 1.2 MI EAST OF JCT KY 170

Χ
Χ

	NBI CONDITION RATINGS						
<b>5</b> 8	Deck:	3	61 Channel:	5			
59	Superstructure:	4	62 Culvert:	N			
<b>60</b>	Substructure:	5	Sufficiency Rating:	44.3			

**DESIGN** 

Subst	tandard:	Weight
43A	Main Span Material:	(1) Concrete
43B	Main Span Design:	(04) Tee Beam
45	Number of Spans Main:	1
44A	Approach Span Material:	Not Applicable (0)
44B	Approach Span Design:	Unknown (P)
46	<b>Number of Approach Spans:</b>	0
107	Deck Type:	(1) Concrete-Cast-in-Place
108A	Wearing Surface:	(6) Bituminous
108B	Membrane:	(0) None
108C	Deck Protection:	(0) None
Overl	ay Y/N:	Yes
Overl	ау Туре:	Asphalt
Overl	ay Thickness:	6.000 in

	APPRAISAL						
36A	Bridge Railings:	(0) Substandard					
36B	Transitions	(0) Substandard					
36C	Approach Guardrail:	(1) Meets Standards					
36D	Approach Guardrail Ends:	(1) Meets Standards					
71	Waterway Adequacy:	(6) Equal Minimum					
<b>72</b>	Approach Alignment:	(8) Equal Desirable Crit					
92A	Fracture Critical Inspection:	No					
92B	Under Water Inspection:	No					
113	Scour Critical:	(8) Stable above footing					
Reco	mmended Scour Critical:	(3) SC- Unstable					

		LOAD RATINGS
63	Operating Type:	(2) Allowable Stress (AS)
64	Operating Rating:	64.0 tons
65	Inventory Type:	(2) Allowable Stress (AS)
66	Inventory Rating:	34.0 tons
Truc	k Capacity Type I:	28 tons
Truc	k Capacity Type II:	29 tons
Truc	k Capacity Type III:	31 tons
Truc	k Capacity Type IV:	55 tons

	GEOMETRIC DATA						
48	Max Length Span:	29.856 ft					
49	Structure Length:	33.136 ft					
32	Approach Roadway:	20.013 ft					
33	Median:	(0) No Median					
34	Skew:	30°					
35	Flare:	No Flare					
50A	Curb/Sidewalk Width L:	1.001 ft					
50B	Curb/Sidewalk Width R:	1.001 ft					
47	Horiz. Clearance:	19.029 ft					
51	Width Curb to Curb:	19.029 ft					
<b>52</b>	Width Out to Out:	22.500 ft					

Milepoint: 7.780

	ADMINISTRATIVE						
	ADMINISTR	KATIVE					
27	Year Built:	1929					
106	Year Reconstructed:	0					
42A	Type of Service On:	(1) Highway					
42B	Type of Service Under:	(5) Waterway					
37	Historical Significance:	(5) Not Eligible					
21	<b>Maintenance Responsibility</b>	:(01) State Hwy Agency					
22	Owner:	(01) State Hwy Agency					
101	Parallel Structure:	(N) No II Structure Exists					

	CLEARANCES							
10	Vert. Clearance:	99.999 ft						
53	Min. Vert. Clearance Over:	99.999 ft						
54A	Vert. Under Reference:	(N) Feature not hwy or RR						
54B	Min. Vert. Underclearance:	0.000 ft						
55A	Lateral Under Reference:	(N) Feature not hwy or RR						
55B	Min. Lat. Underclearance R:	0.000 ft						
<b>56</b>	Min. Lat. Underclearance L:	0.000 ft						

POSTINGS						
41 Posting Status:	(P) Posted For Load					
Signs Posted Cardinal:	Yes					
Signs Posted Non-Cardinal:	Yes					
Field Postings Gross:	tons					
Field Postings Type I:	tons					
Field Postings Type II:	tons					
Field Postings Type III:	31 tons					
Field Postings Type IV:	tons					

90 Inspection Date - 6/17/2013 Inspector - BCOMBS (217)

### **Inspection Report with SI&A Data**

16: Re 0	Conc Top Flange	<del>)</del>							
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	745.57	432.43	58%	37.28	5%	275.86	37%	0	0%

Asphalt wearing surface has some areas of cracking. There is a section of deck missing at Abutment 1 on the downstream side and this is encroaching upon the driving lane--it ft.s right to the white edge-line and appears to be rotten even farther in. Near this area the asphalt has heavy random cracking indicating that the underlying concrete has deterioration. The white line is, however, directly over the downstream exterior beam. This needs to be patched.

510: We	aring Surfaces								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	635.93	604.14	95%	31.8	5%	0	0%	0	0%

7359: D	7359: DO NOT USE Concrete Efflorescenc								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	10.76	10.76	100%	0	0%	0	0%	0	0%

Asphalt wearing surface has some areas of cracking. There is a section of deck missing at Abutment 1 on the downstream side and this is encroaching upon the driving lane--it ft.s right to the white edge-line and appears to be rotten even farther in. Near this area the asphalt has heavy random cracking indicating that the underlying concrete has deterioration. The white line is, however, directly over the downstream exterior beam. This needs to be patched.

90 Inspection Date - 6/17/2013 Inspector - BCOMBS (217)

Inspection Report with SI&A Data

110: Re	Conc Opn Girde	er/Beam							
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	132	89	67%	21	16%	22	17%	0	0%

The upstream face of the upstream beam has some light longitudinal cracking at the beam ft.s ends and near midspan. It also has some small areas of honeycombing at Abutment 2. Throughout this beam there are a few very light vertical cracks. The downstream face of the upstream beam has several shallow spalls with exposed steel throughout its length. Three locations of moderate spalling are present in the lower downstream face of this beam. One of these is near Abutment 2 and two are near midspan. The spalls on the bottom face of the beam near midspan have 3 large primary longitudinal reinforcement square bars exposed. Some section loss is present with this longitudinal bar (10%). It also appears that within this spall there was a void in the concrete. The downstream face of Beam 2 from upstream has a couple of very small shallow spalls near Abutment 2. The upstream face of the downstream exterior beam has several light cracks with extensive efflorescence and some shallow spalling with exposed steel near abutment 1. The interior face of this beam near Abutment 2 has a moderate amount of cracking with efflorescence. The exterior face of the downstream beam has areas of cracking with efflorescence and a few shallow spalls with exposed steel. The most advanced deterioration of this beam is near Abutment 1 at the bearing. The cracking is heavy in density but minor in size with heavy efflorescence that begins at Abutment 1 and extends ~10 ft.. Otherwise, the beams have some light delamination cracking and both the exterior beams have some discoloration below the drain outlets.

215: Re	Conc Abutment								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	104	0	0%	102	98%	2	2%	0	0%

Abutment 1 has a ~1/4 in. vertical crack below Beam 3 from upstream that extends from the groundline to the top. This abutment also has some scaling along the flowline. Some light cracking and moderate spalling are present at the upstream end of Abutment 1 ft.s wingwall. There is also some shallow spalling under the downstream exterior beam. Abutment 2 has a ~1/8 in. vertical crack with seepage. It is below the upstream exterior beam and it extends from the groundline to the top. The upstream wingwall of Abutment 2 has some light cracking with and shallow spalling along the top. The downstream wingwall has some areas of light cracking with more moderate cracking at the top of the haunch. Abutment 1 has heavy staining under the downstream exterior beam. See photos.

330: Me	etal Bridge Railin	g							
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	66	33	50%	33	50%	0	0%	0	0%

Due to the heavy deterioration of the downstream deck and curb, rail posts 1, 4, and 6 are no longer secured to the curb with angle clips. The remaining guard rail post clips are most likely in rotten concrete. This would most likely not redirect impact and should be repaired.

515: Ste	el Protective Co	ating							
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	0.3	0.3	100%	0	0%	0	0%	0	0%

803: Cu	ırb								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(LF)	66	28	42%	4	6%	30	45%	4	6%

The upstream curb has some light scaling/spalling at the ends near the abutments. At abutment 1 the downstream curb is mostly missing for a length of 3 ft.. The concrete that is left at this location is very rotten and the steel that was within the curb is suspended in the air. For approximately 12 ft. from abutment 1 the downstream curb is very heavily spalled with areas of exposed steel with rotten concrete. The remaining portion of the downstream curb is moderately to heavily spalled with some exposed steel.

850: 2nd	d Elem								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	0	0%	1	100%	0	0%

The diaphragms between the beams at the abutments have some cracking with efflorescence. A couple of small to moderate spalls are present at the downstream end of Abutment 1 and the upstream end of Abutment 2.

852: Dra	ains								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	0	0%	0	0%	1	100%

This bridge appears to have 3 drains along each side. The upstream drain near abutment 1 and the downstream drain near midspan are mostly blocked and the remaining drains are completely blocked by the asphalt overlay.

856: Ch	nan Drift								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	1	100%	0	0%	0	0%

Drift (silt, mud, and vegetation) have built up under the bridge along the east embankment. The stream appears to be mostly low volume flow evident by the heavy vegetation growth, drift, and almost stagnant water.

858: Ch	annel Alignment								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	0	0%	1	100%	0	0%

The stream makes a sharp turn at the upstream end of the structure and this is being aided by the gabion baskets just upstream of Abutment 1. The stream flows along Abutment 1 and drift and vegetation are building up along the opposite bank. The stream appears to be mostly low volume flow evident by the heavy vegetation growth, drift, and almost stagnant water. See photos.

860: Erd	osion Ctrl/Prt								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	1	100%	0	0%	0	0%

The erosion control (Gabion baskets) placed along the west embankment just upstream of Abutment 1 appear to be functioning as designed. The stream makes a sharp turn at the upstream end of the structure and this is being aided by these baskets. The stream appears to be mostly low volume flow evident by the heavy vegetation growth, drift, and almost stagnant water.

	STRUCTURE NOTES
-60.1	

#### **INSPECTION NOTES**

Bridge is posted at Type 3, 31 tons. Both signs are in place at this time. Bridge Inspection by B.Combs.

	WORK
Action:	-

90 Inspection Date - 11/29/2012 Inspector - JCALLAHAN (8)

### **Inspection Report with SI&A Data**

Structure Description: 33.14 Foot - Single Span Concrete Tee Beam

**2 District:** 09 **3 County:** Fleming **16 Latitude:** 38°25′17.00″ **7 Longitude:** 83°48′18.00″

7 Facility Carried KY-32

Overlay Thickness:

**Overlay Date:** 

6A Feature Intersected: MUD LICK CREEK9 Location: 1.2 MI EAST OF JCT KY 170

NBI	Χ
Element	Χ
Fracture Critical	
Underwater	
Special	

	NBI CONDITION RATINGS							
<b>5</b> 8	Deck:	3	61 Channel:	5				
<b>59</b>	Superstructure:	4	62 Culvert:	N				
<b>60</b>	Substructure:	5	Sufficiency Rating:	44.4				

DESIGN					
Subst	tandard:	Weight			
43A	Main Span Material:	(1) Concrete			
43B	Main Span Design:	(04) Tee Beam			
45	Number of Spans Main:	1			
44A	Approach Span Material:	Not Applicable (0)			
44B	Approach Span Design:	Unknown (P)			
46	Number of Approach Spans:	0			
107	Deck Type:	(1) Concrete-Cast-in-Place			
108A	Wearing Surface:	(6) Bituminous			
108B	Membrane:	(0) None			
108C	Deck Protection:	(0) None			
Overl	ay Y/N:	Yes			
Overl	ау Туре:	Asphalt			

10.000 in

	APPRAISAL						
36A	Bridge Railings:	(0) Substandard					
36B	Transitions	(0) Substandard					
36C	Approach Guardrail:	(1) Meets Standards					
36D	Approach Guardrail Ends:	(1) Meets Standards					
71	Waterway Adequacy:	(6) Equal Minimum					
72	Approach Alignment:	(8) Equal Desirable Crit					
92A	Fracture Critical Inspection:	No					
92B	Under Water Inspection:	No					
113	Scour Critical:	(8) Stable above footing					
Reco	mmended Scour Critical:	(3) SC- Unstable					

		LOAD RATINGS
63	Operating Type:	(2) Allowable Stress (AS)
64	Operating Rating:	64.0 tons
65	Inventory Type:	(2) Allowable Stress (AS)
66	Inventory Rating:	34.0 tons
Truc	k Capacity Type I:	28 tons
Truc	k Capacity Type II:	29 tons
Truc	k Capacity Type III:	31 tons
Truc	k Capacity Type IV:	55 tons

	GEOMETRIC DATA						
48	Max Length Span:	29.856 ft					
49	Structure Length:	33.136 ft					
32	Approach Roadway:	20.013 ft					
33	Median:	(0) No Median					
34	Skew:	30°					
35	Flare:	No Flare					
50A	Curb/Sidewalk Width L:	1.001 ft					
50B	Curb/Sidewalk Width R:	1.001 ft					
47	Horiz. Clearance:	19.029 ft					
51	Width Curb to Curb:	19.029 ft					
52	Width Out to Out:	22.500 ft					

Milepoint: 7.780

	ADMINISTRATIVE					
27	Year Built:	1929				
106	Year Reconstructed:	0				
42A	Type of Service On:	(1) Highway				
42B	Type of Service Under:	(5) Waterway				
37	Historical Significance:	(5) Not Eligible				
21	<b>Maintenance Responsibility</b>	:(01) State Hwy Agency				
22	Owner:	(01) State Hwy Agency				
101	Parallel Structure:	(N) No II Structure Exists				

	CLEARANCES							
10	Vert. Clearance:	99.999 ft						
53	Min. Vert. Clearance Over:	99.999 ft						
54A	Vert. Under Reference:	(N) Feature not hwy or RR						
54B	Min. Vert. Underclearance:	0.000 ft						
55A	Lateral Under Reference:	(N) Feature not hwy or RR						
55B	Min. Lat. Underclearance R:	0.000 ft						
56	Min. Lat. Underclearance L:	0.000 ft						

POSTINGS						
41 Posting Status:	(P) Posted For Load					
Signs Posted Cardinal:	Yes					
Signs Posted Non-Cardinal:	Yes					
Field Postings Gross:	tons					
Field Postings Type I:	tons					
Field Postings Type II:	tons					
Field Postings Type III:	31 tons					
Field Postings Type IV:	tons					

Inspector - JCALLAHAN (8)

### Inspection Report with SI&A Data

16: Re	Conc Top Flange	•							
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	745.57	432.43	58%	37.28	5%	275.86	37%	0	0%

Asphalt wearing surface has some areas of cracking. There is a section of deck missing at Abutment 1 on the downstream side and this is encroaching upon the driving lane—it ft.s right to the white edgeline and appears to be rotten even farther in. This needs to be patched.

510: Wearing Surfaces									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	635.93	604.14	95%	31.8	5%	0	0%	0	0%

7359: DO NOT USE Concrete Efflorescenc									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	10.76	10.76	100%	0	0%	0	0%	0	0%

Asphalt wearing surface has some areas of cracking. There is a section of deck missing at Abutment 1 on the downstream side and this is encroaching upon the driving lane—it ft.s right to the white edgeline and appears to be rotten even farther in. This needs to be patched.

110: Re	Conc Opn Girde	er/Beam							
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	132	89	67%	21	16%	22	17%	0	0%

The upstream face of the upstream beam has some light longitudinal cracking at the beam ft.s ends and near midspan. It also has some small areas of honeycombing at Abutment 2. Throughout this beam there a a few very light vertical cracks. The downstream face of the upstream beam has several shallow spalls with exposed steel throughout its length. Three locations of moderate spalling are present in the lower downstream face of this beam. One of these is near Abutment 2 and two are near midspan. The spalls near midspan have a large primary longitudinal reinforcement bar exposed. Some section loss is present with this longitudinal bar. The downstream face of Beam 2 from upstream has a couple of very spall shallow spalls near Abutment 2. The upstream face of the downstream beam has several light cracks with extensive efflorescence and some shallow spalling with exposed steel near abutment 1. The interior face of this beam near Abutment 2 has a lighter amount of cracking with efflorescence. The exterior face of the downstream beam has areas of cracking with efflorescence and a few shallow spalls with exposed steel. The most advanced deterioration of this beam is near Abutment 1 at the bearing. The cracking is heavy in density but minor in size with heavy efflorescence that begins at Abutment 1 and extends 6 ft.-8 ft.. Otherwise, the beams have some light delamination cracking and both the exterior beams have some discoloration below the drain outlets.

Inspector - JCALLAHAN (8)

### **Inspection Report with SI&A Data**

215: Re	Conc Abutment								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	104	0	0%	102	98%	2	2%	0	0%

Abutment 1 has an approximate 1/8 in. vertical crack below Beam 3 from upstream that extends from the groundline to the top. This abutment also has some scaling along the flowline. Some light cracking and moderate spalling are present at the upstream end of Abutment 1 ft.s wingwall. There is also some shallow spalling under the downstream exterior beam. Abutment 2 has an approximate 1/8 in. vertical crack with seepage. It is below the upstream beam and it extends from the groundline to the top. The upstream wingwall of Abutment 2 has some light cracking with and shallow spalling along the top. The downstream wingwall has some areas of light cracking with more moderate cracking at the top of the haunch.

330: Me	etal Bridge Railin	g							
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	66	33	50%	33	50%	0	0%	0	0%

Due to the heavy deterioration of the downstream deck and curb, rail posts 1, 4, and 6 are no longer secured to the curb. This may not redirect impact and should be repaired.

515: Ste	515: Steel Protective Coating									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4	
FT	0.3	0.3	100%	0	0%	0	0%	0	0%	

803: Cu	ırb								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(LF)	66	28	42%	4	6%	30	45%	4	6%

The upstream curb has some light scaling/spalling at the ends near the abutments. At abutment 1 the downstream curb is mostly missing for a length of 3 ft.. The concrete that is left at this location is very rotten and the steel that was within the curb is suspended in the air. For approximately 12 ft. from abutment 1 the downstream curb is heavily spalled with some exposed steel with rotten concrete. The remaining portion of the downstream curb is moderately to heavily spalled with some exposed steel.

Special (0-60 months) - Primary Inspection Type

Inspector - JCALLAHAN (8)

Inspection Report with SI&A Data

850: 2n	d Elem								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	0	0%	1	100%	0	0%

The diaphragms between the beams at the abutments have some cracking with efflorescence. A couple of small to moderate spalls are present at the downstream end of Abutment 1 and the upstream end of Abutment 2.

852: Dra	ains								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	0	0%	0	0%	1	100%

This bridge appears to have 3 drains along each side. The upstream drain near abutment 1 and the downstream drain near midspan are mostly blocked and the remaining drains are completely blocked by the asphalt overlay.

856: Ch	an Drift								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	1	100%	0	0%	0	0%

Drift (silt, mud, and vegetation) have built up under the bridge along the east embankment. The stream appears to be mostly low volume flow evident by the heavy vegetation growth, drift, and almost stagnant water.

858: Ch	annel Alignment								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	0	0%	1	100%	0	0%

The stream makes a sharp turn at the upstream end of the structure and this is being aided by the gabion baskets just upstream of Abutment 1. The stream flows along Abutment 1 and drift and vegetation are building up along the opposite bank. The stream appears to be mostly low volume flow evident by the heavy vegetation growth, drift, and almost stagnant water. See photos.

Special (0-60 months) - Primary Inspection Type

Inspection Report with SI&A Data

860: Ere	osion Ctrl/Prt								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	1	100%	0	0%	0	0%

The erosion control (Gabion baskets) placed along the west embankment just upstream of Abutment 1 appear to be functioning as designed. The stream makes a sharp turn at the upstream end of the structure and this is being aided by these baskets. The stream appears to be mostly low volume flow evident by the heavy vegetation growth, drift, and almost stagnant water.

STRUCTURE NOTES	
-60.1	

#### **INSPECTION NOTES**

This is a special inspection performed by Joe Callahan. Bridge is posted at Type 3, 31 tons. Both signs are in place at this time.

	WORK
Action:	

**90 Inspection Date -** 6/18/2012 **Inspector -** AGREINER (154)

### **Inspection Report with SI&A Data**

Structure Description: 33.14 Foot - Single Span Concrete Tee Beam

**2 District:** 09 **3 County:** Fleming **16 Latitude:** 38°25′17.00″ **7 Longitude:** 83°48′18.00″

7 Facility Carried KY-32

6A Feature Intersected: MUD LICK CREEK9 Location: 1.2 MI EAST OF JCT KY 170

NBI	Χ
Element	Χ
Fracture Critical	
Underwater	
Special	

	NBI CONDITION RATINGS						
<b>5</b> 8	Deck:	4	61 Channel:	5			
59	Superstructure:	5	62 Culvert:	N			
<b>60</b>	Substructure:	5	Sufficiency Rating:	62.9			

**DESIGN** 

Subst	tandard:	Weight
43A	Main Span Material:	(1) Concrete
43B	Main Span Design:	(04) Tee Beam
45	Number of Spans Main:	1
44A	Approach Span Material:	Not Applicable (0)
44B	Approach Span Design:	Unknown (P)
46	<b>Number of Approach Spans:</b>	0
107	Deck Type:	(1) Concrete-Cast-in-Place
108A	Wearing Surface:	(6) Bituminous
108B	Membrane:	(0) None
108C	Deck Protection:	(0) None
Overl	ay Y/N:	Yes
Overl	ay Type:	Asphalt
Overl	ay Thickness:	10.000 in
Overl	ay Date:	

	,	IOAL
36A	Bridge Railings:	(0) Substandard
36B	Transitions	(0) Substandard
36C	Approach Guardrail:	(1) Meets Standards
36D	Approach Guardrail Ends:	(1) Meets Standards
71	Waterway Adequacy:	(6) Equal Minimum
<b>72</b>	Approach Alignment:	(8) Equal Desirable Crit
92A	Fracture Critical Inspection:	No
92B	Under Water Inspection:	No
113	Scour Critical:	(8) Stable above footing
Reco	mmended Scour Critical:	(3) SC- Unstable

**APPRAISAL** 

		LOAD RATINGS
63	Operating Type:	(2) Allowable Stress (AS)
64	Operating Rating:	64.0 tons
65	Inventory Type:	(2) Allowable Stress (AS)
66	Inventory Rating:	34.0 tons
Truc	k Capacity Type I:	28 tons
Truc	k Capacity Type II:	29 tons
Truc	k Capacity Type III:	31 tons
Truc	k Capacity Type IV:	55 tons

GEOMETRIC DATA						
Max Length Span:	29.856 ft					
Structure Length:	33.136 ft					
Approach Roadway:	20.013 ft					
Median:	(0) No Median					
Skew:	30°					
Flare:	No Flare					
Curb/Sidewalk Width L:	1.001 ft					
Curb/Sidewalk Width R:	1.001 ft					
Horiz. Clearance:	19.029 ft					
Width Curb to Curb:	19.029 ft					
Width Out to Out:	22.500 ft					
	Max Length Span: Structure Length: Approach Roadway: Median: Skew: Flare: Curb/Sidewalk Width L: Curb/Sidewalk Width R: Horiz. Clearance: Width Curb to Curb:					

Milepoint: 7.780

	ADMINISTRATIVE					
27	Year Built:	1929				
106	Year Reconstructed:	0				
42A	Type of Service On:	(1) Highway				
42B	Type of Service Under:	(5) Waterway				
<b>37</b>	Historical Significance:	(5) Not Eligible				
21	<b>Maintenance Responsibility</b>	:(01) State Hwy Agency				
22	Owner:	(01) State Hwy Agency				
101	Parallel Structure:	(N) No II Structure Exists				

	CLEARANCES						
10	Vert. Clearance:	99.999 ft					
53	Min. Vert. Clearance Over:	99.999 ft					
54A	Vert. Under Reference:	(N) Feature not hwy or RR					
54B	Min. Vert. Underclearance:	0.000 ft					
55A	Lateral Under Reference:	(N) Feature not hwy or RR					
55B	Min. Lat. Underclearance R:	0.000 ft					
56	Min. Lat. Underclearance L:	0.000 ft					

POSTINGS							
<b>41 Posting Status:</b> (P) Posted For Load							
Signs Posted Cardinal:	Yes						
Signs Posted Non-Cardinal:	Yes						
Field Postings Gross:	tons						
Field Postings Type I:	tons						
Field Postings Type II:	tons						
Field Postings Type III:	31 tons						
Field Postings Type IV:	tons						

### Inspection Report with SI&A Data

16: Re	Conc Top Flange	•							
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	745.57	469.71	63%	0	0%	275.86	37%	0	0%

The asphalt wearing surface has some transverse cracking near the bridge ends and some longitudinal cracking along the white lines. The missing portion of the downstream curb at abutment 1 has created a vertical edge right at the roadway shoulder. The concrete is very rotten at this location and should be repaired. See photos.

510: We	510: Wearing Surfaces								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	635.93	635.93	100%	0	0%	0	0%	0	0%

7359: D	O NOT USE Con	crete Efflorescen	С						
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	10.76	10.76	100%	0	0%	0	0%	0	0%

The asphalt wearing surface has some transverse cracking near the bridge ends and some longitudinal cracking along the white lines. The missing portion of the downstream curb at abutment 1 has created a vertical edge right at the roadway shoulder. The concrete is very rotten at this location and should be repaired. See photos.

110: Re	Conc Opn Girde	er/Beam							
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	132	89	67%	21	16%	22	17%	0	0%

The upstream face of the upstream beam has some light longitudinal cracking at the beam ft.s ends and near midspan. It also has some small areas of honeycombing at abutment 2. Throughout this beam there a a few very light vertical cracks. The downstream face of the upstream beam has several shallow spalls with exposed steel throughout its length. Three locations of moderate spalling are present in the lower downstream face of this beam. One of these is near abutment 2 and two are near midspan. The spalls near midspan have a large longitudinal reinforcement bar exposed. Only light corrosion is present within this longitudinal bar. The downstream face of beam 2 from upstream has a couple of very spall shallow spalls near abutment 2. The upstream face of the downstream beam has several light cracks with extensive efflorescence and some shallow spalling with exposed steel near abutment 1. The interior face of this beam near abutment 2 has a lighter amount of cracking with efflorescence. The exterior face of the downstream beam has areas of cracking with efflorescence and a few shallow spalls with exposed steel. The most advanced deterioration of this beam is near abutment 1. The cracking is heavy in density but minor in size with heavy efflorescence that extends 6 ft.-8- from abutment 1. Otherwise, the beams have some light delamination cracking and both the exterior beams have some discoloration below the drain outlets. See photos.

### **Inspection Report with SI&A Data**

215: Re	Conc Abutment								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	104	0	0%	102	98%	2	2%	0	0%

Abutment 1 has an approximate 1/8 in. vertical crack below beam 3 from upstream that extends from the groundline to the top. This abutment also has some scaling along the flowline. Some light cracking and moderate spalling are present at the upstream end of abutment 1 ft.s wingwall. Abutment 2 has an approximate 1/8 in. vertical crack with seepage. It is below the upstream beam and it extends from the groundline to the top. The upstream wingwall of abutment 2 has some light cracking with and shallow spalling along the top. The downstream wingwall has some areas of light cracking with more moderate cracking at the top of the haunch. See photos.

330: Me	etal Bridge Railin	g							
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	66	33	50%	33	50%	0	0%	0	0%

Due to the heavy deterioration of the downstream curb, rail posts 1, 4, and 6 are no longer secured to the curb. This may not redirect impact and should be repaired. See photos.

515: Ste	515: Steel Protective Coating									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4	
FT	0.3	0.3	100%	0	0%	0	0%	0	0%	
									1	

803: Cu	rb								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(LF)	66	28	42%	4	6%	30	45%	4	6%

The upstream curb has some light scaling/spalling at the ends near the abutments. At abutment 1 the downstream curb is mostly missing for a length of 3 ft.. The concrete that is left at this location is very rotten and the steel that was within the curb is suspended in the air. For approximately 12 ft. from abutment 1 the downstream curb is heavily spalled with some exposed steel with rotten concrete. The remaining portion of the downstream curb is moderately to heavily spalled with some exposed steel. See photos.

Inspection Report with SI&A Data

850: 2n	d Elem								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	0	0%	1	100%	0	0%

The diaphragms between the beams at the abutments have some cracking with efflorescence. A couple of small to moderate spalls are present at the downstream end of abutment 1 and the upstream end of abutment 2. See photos.

852: Dra	ains								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	0	0%	0	0%	1	100%

This bridge appears to have 3 drains along each side. The upstream drain near abutment 1 and the downstream drain near midspan are mostly blocked and the remaining drains are completely blocked by the asphalt overlay. See photos.

856: Ch	an Drift								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	1	100%	0	0%	0	0%

Drift (silt, mud, and vegetation) have built up under the bridge along the east embankment. The stream appears to be mostly low volume flow evident by the heavy vegetation growth, drift, and almost stagnant water. See photos.

858: Ch	annel Alignment								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	0	0%	1	100%	0	0%

The stream makes a sharp turn at the upstream end of the structure and this is being aided by the gabion baskets just upstream of abutment 1. The stream flows along abutment 1 and drift and vegetation are building up along the opposite bank. The stream appears to be mostly low volume flow evident by the heavy vegetation growth, drift, and almost stagnant water. See photos.

Substandard (12 months) - Primary Inspection Type

Inspection Report with SI&A Data

860: Erd	osion Ctrl/Prt								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	1	100%	0	0%	0	0%

The erosion control (Gabion baskets) placed along the west embankment just upstream of abutment 1 appear to be functioning as designed. The stream makes a sharp turn at the upstream end of the structure and this is being aided by these baskets. The stream appears to be mostly low volume flow evident by the heavy vegetation growth, drift, and almost stagnant water. See photos.

STRUCTURE NOTES	
-60.1	

#### INSPECTION NOTES

Bridge is posted at type 3, 31 tons. Both signs are in place at this time. See photos. Inspected by A.Greiner.

	WORK
Action:	

**90 Inspection Date** - 6/9/2011 **Inspector** - RROGERS (35)

### **Inspection Report with SI&A Data**

Structure Description: 33.14 Foot - Single Span Concrete Tee Beam

**2** District: 09 **3** County: Fleming **16** Latitude: 38°25′17.00″ **7** Longitude: 83°48′18.00″

7 Facility Carried KY-32

Overlay Thickness:

**Overlay Date:** 

6A Feature Intersected: MUD LICK CREEK9 Location: 1.2 MI EAST OF JCT KY 170

NBI	Χ
Element	Χ
Fracture Critical	
Underwater	
Special	

	NBI CONDITION RATINGS								
<b>5</b> 8	Deck:	5	61 Channel:	5					
<b>59</b>	Superstructure:	5	62 Culvert:	N					
60	Substructure: 4 Sufficiency Rating: 49								

**DESIGN** 

Subst	tandard:	Weight					
43A	Main Span Material:	(1) Concrete					
43B	Main Span Design:	(04) Tee Beam					
45	Number of Spans Main:	1					
44A	Approach Span Material:	Not Applicable (0)					
44B	Approach Span Design:	Unknown (P)					
46	<b>Number of Approach Spans:</b>	0					
107	Deck Type:	(1) Concrete-Cast-in-Place					
108A	Wearing Surface:	(6) Bituminous					
108B	Membrane:	(0) None					
108C	Deck Protection:	(0) None					
Overl	ay Y/N:	Yes					
Overl	ау Туре:	Asphalt					

10.000 in

	APPRAISAL							
36A	Bridge Railings:	(0) Substandard						
36B	Transitions	(0) Substandard						
36C	Approach Guardrail:	(1) Meets Standards						
36D	Approach Guardrail Ends:	(1) Meets Standards						
71	Waterway Adequacy:	(6) Equal Minimum						
72	Approach Alignment:	(8) Equal Desirable Crit						
92A Fracture Critical Inspection:		No						
92B	Under Water Inspection:	No						
113	Scour Critical:	(8) Stable above footing						
Reco	mmended Scour Critical:	(3) SC- Unstable						

		LOAD RATINGS
63	Operating Type:	(2) Allowable Stress (AS)
64	Operating Rating:	64.0 tons
65	Inventory Type:	(2) Allowable Stress (AS)
66	Inventory Rating:	34.0 tons
Truc	k Capacity Type I:	28 tons
Truc	k Capacity Type II:	29 tons
Truc	k Capacity Type III:	31 tons
Truc	k Capacity Type IV:	55 tons
•		

	GEOMETRIC DATA						
48	Max Length Span:	29.856 ft					
49	Structure Length:	33.136 ft					
32	Approach Roadway:	20.013 ft					
33	Median:	(0) No Median					
34	Skew:	30°					
35	Flare:	No Flare					
50A	Curb/Sidewalk Width L:	1.001 ft					
50B	Curb/Sidewalk Width R:	1.001 ft					
47	Horiz. Clearance:	19.029 ft					
51	Width Curb to Curb:	19.029 ft					
52	Width Out to Out:	22.500 ft					

Milepoint: 7.780

	ADMINISTRATIVE					
27	Year Built:	1929				
106	Year Reconstructed:	0				
42A	Type of Service On:	(1) Highway				
42B	Type of Service Under:	(5) Waterway				
37	Historical Significance:	(5) Not Eligible				
21	<b>Maintenance Responsibility</b>	:(01) State Hwy Agency				
22	Owner:	(01) State Hwy Agency				
101	Parallel Structure:	(N) No II Structure Exists				

	CLEARANCES							
10	Vert. Clearance:	99.999 ft						
53	Min. Vert. Clearance Over:	99.999 ft						
54A	Vert. Under Reference:	(N) Feature not hwy or RR						
54B	Min. Vert. Underclearance:	0.000 ft						
55A	Lateral Under Reference:	(N) Feature not hwy or RR						
55B	Min. Lat. Underclearance R:	0.000 ft						
<b>56</b>	Min. Lat. Underclearance L:	0.000 ft						

POSTINGS							
41 Posting Status:	(P) Posted For Load						
Signs Posted Cardinal:	Yes						
Signs Posted Non-Cardinal:	Yes						
Field Postings Gross:	tons						
Field Postings Type I:	tons						
Field Postings Type II:	tons						
Field Postings Type III:	31 tons						
Field Postings Type IV:	tons						

16: Re 0	Conc Top Flange								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	745.57	469.71	63%	0	0%	275.86	37%	0	0%

Asphalt wearing surface has minor transverse cracking at bridge ends. Remaining portion of beam is in good condition at this time. See photos.

510: We	aring Surfaces								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	635.93	635.93	100%	0	0%	0	0%	0	0%

7359: DO NOT USE Concrete Efflorescenc									
Units Total Qty Qty. St. 1 % in 1 Qty. St. 2 % in 2 Qty. St. 3 % in 3 Qty. St. 4 %							% in 4		
SQ.FT	10.76	10.76	100%	0	0%	0	0%	0	0%

Asphalt wearing surface has minor transverse cracking at bridge ends. Remaining portion of beam is in good condition at this time. See photos.

110: Re Conc Opn Girder/Beam									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	132	89	67%	21	16%	22	17%	0	0%

Upstream exterior beam has cracking and shallow cover spalling with exposed steel. Downstream exterior beam has cracking with efflorescence and shallow cover spalling with exposed steel. Interior beams are in good condition. See photos.

**90 Inspection Date** - 6/9/2011 **Inspector** - RROGERS (35)

**Inspection Report with SI&A Data** 

215: Re Conc Abutment										
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4	
FT	104	0	0%	102	98%	2	2%	0	0%	

Abutments have some cracking and scaling at flowline. Abutment 1 has a large vertical crack at downstream end and abutment 2 has a similar vertical at upstream end. Cracks are approximately 1/4 in. wide. Need to monitor. See photos.

330: Metal Bridge Railing									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	66	33	50%	33	50%	0	0%	0	0%

Rail has minor impact damage. Due to condition of downstream curb, posts 1,4, and 6 are loose. This needs to be repaired soon. See photo.

515: Steel Protective Coating										
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4	
FT	0.3	0.3	100%	0	0%	0	0%	0	0%	

803: Curb									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(LF)	66	33	50%	0	0%	33	50%	0	0%

Downstream curb is heavily scaled on top having exposed steel with section loss. Curb will need to be repaired. See photo.

850: 2nd Elem									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	0	0%	1	100%	0	0%

Diaphragms have areas of cracking with efflorescence and some minor spalling. See photos.

852: Dra	ains								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	0	0%	0	0%	1	100%

Drains are blocked with asphalt overlay at this time.

860: Er	osion Ctrl/Prt								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	1	100%	0	0%	0	0%

Erosion control placed along the west embankment upstream of abutment 1 appears to be functioning as designed. See photos.

7361: D	O NOT USE Scot	ır							
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	1	100%	0	0%	0	0%	0	0%

No scour is present at this time. See photos.

#### STRUCTURE NOTES

-60.1

#### **INSPECTION NOTES**

Bridge is posted at type 3, 31tons. Both signs are in place at this time. See photos. Inspected by R.Rogers, A.Greiner, and B.Combs

	WORK
Action: -	

**90 Inspection Date** - 6/4/2010 **Inspector** - RROGERS (35)

### **Inspection Report with SI&A Data**

Structure Description: 33.14 Foot - Single Span Concrete Tee Beam

**2 District:** 09 **3 County:** Fleming **16 Latitude:** 38°25′17.00″ **7 Longitude:** 83°48′18.00″

7 Facility Carried KY-32

Overlay Date:

6A Feature Intersected: MUD LICK CREEK9 Location: 1.2 MI EAST OF JCT KY 170

NBI	Χ
Element	Χ
Fracture Critical	
Underwater	
Special	

	NBI CONDITION RATINGS				
<b>5</b> 8	Deck:	5	61 Channel:	5	
<b>59</b>	Superstructure:	5	62 Culvert:	N	
<b>60</b>	Substructure:	4	Sufficiency Rating:	48.7	

**DESIGN** 

Subs	tandard:	Weight
43A	Main Span Material:	(1) Concrete
43B	Main Span Design:	(04) Tee Beam
45	Number of Spans Main:	1
44A	Approach Span Material:	Not Applicable (0)
44B	Approach Span Design:	Unknown (P)
46	Number of Approach Spans:	0
107	Deck Type:	(1) Concrete-Cast-in-Place
108A	Wearing Surface:	(6) Bituminous
108B	Membrane:	(0) None
108C	Deck Protection:	(0) None
Overl	ay Y/N:	Yes
Overl	ay Type:	Asphalt
Overl	ay Thickness:	10.000 in

	APPRAISAL				
36A	Bridge Railings:	(0) Substandard			
36B	Transitions	(0) Substandard			
36C	Approach Guardrail:	(1) Meets Standards			
36D	Approach Guardrail Ends:	(1) Meets Standards			
71	Waterway Adequacy:	(6) Equal Minimum			
<b>72</b>	Approach Alignment:	(8) Equal Desirable Crit			
92A	Fracture Critical Inspection:	No			
92B	Under Water Inspection:	No			
113	Scour Critical:	(8) Stable above footing			
Reco	mmended Scour Critical:	(3) SC- Unstable			

		LOAD RATINGS
63	Operating Type:	(2) Allowable Stress (AS)
64	Operating Rating:	64.0 tons
65	Inventory Type:	(2) Allowable Stress (AS)
66	Inventory Rating:	34.0 tons
Truc	k Capacity Type I:	28 tons
Truc	k Capacity Type II:	29 tons
Truc	k Capacity Type III:	31 tons
Truc	k Capacity Type IV:	55 tons

	GEOMETRIC DATA				
48	Max Length Span:	29.856 ft			
49	Structure Length:	33.136 ft			
32	Approach Roadway:	20.013 ft			
33	Median:	(0) No Median			
34	Skew:	30°			
35	Flare:	No Flare			
50A	Curb/Sidewalk Width L:	1.001 ft			
50B	Curb/Sidewalk Width R:	1.001 ft			
47	Horiz. Clearance:	19.029 ft			
51	Width Curb to Curb:	19.029 ft			
<b>52</b>	Width Out to Out:	22.500 ft			

Milepoint: 7.780

	ADMINISTRATIVE				
27	Year Built:	1929			
106	Year Reconstructed:	0			
42A	Type of Service On:	(1) Highway			
42B	Type of Service Under:	(5) Waterway			
37	Historical Significance:	(5) Not Eligible			
21	<b>Maintenance Responsibility</b>	:(01) State Hwy Agency			
22	Owner:	(01) State Hwy Agency			
101	Parallel Structure:	(N) No II Structure Exists			

	CLEARANCES				
10	Vert. Clearance:	99.999 ft			
53	Min. Vert. Clearance Over:	99.999 ft			
54A	Vert. Under Reference:	(N) Feature not hwy or RR			
54B	Min. Vert. Underclearance:	0.000 ft			
55A	Lateral Under Reference:	(N) Feature not hwy or RR			
55B	Min. Lat. Underclearance R:	0.000 ft			
56	Min. Lat. Underclearance L:	0.000 ft			

POST	INGS
41 Posting Status:	(P) Posted For Load
Signs Posted Cardinal:	Yes
Signs Posted Non-Cardinal:	Yes
Field Postings Gross:	tons
Field Postings Type I:	tons
Field Postings Type II:	tons
Field Postings Type III:	31 tons
Field Postings Type IV:	tons

16: Re 0	Conc Top Flange								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	745.57	469.71	63%	0	0%	275.86	37%	0	0%

Asphalt wearing surface is in good condition at this time. See photos.

510: We	aring Surfaces								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	635.93	635.93	100%	0	0%	0	0%	0	0%

7359: D	O NOT USE Con	crete Efflorescen	С						
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	10.76	10.76	100%	0	0%	0	0%	0	0%

Asphalt wearing surface is in good condition at this time. See photos.

110: Re Conc Opn Girder/Beam									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	132	89	67%	21	16%	22	17%	0	0%

Upstream exterior beam has cracking and shallow cover spalling with exposed steel. Downstream exterior beam has cracking with efflorescence and shallow cover spalling with exposed steel. Interior beams are in good condition. See photos.

215: Re	Conc Abutment								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	104	0	0%	102	98%	2	2%	0	0%

Abutments have some cracking and scaling at flowline. Abutment 1 has a large vertical crack at downstream end and abutment 2 has a similar vertical at upstream end. Need to monitor. See photos.

**90** Inspection Date - 6/4/2010 Inspector - RROGERS (35)

### **Inspection Report with SI&A Data**

330: Me	etal Bridge Railin	g							
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	66	33	50%	33	50%	0	0%	0	0%

Rail has minor impact damage. Due to condition of downstream curb, several posts are loose. This needs to be repaired soon. See photo.

515: Ste	el Protective Co	ating							
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	0.3	0.3	100%	0	0%	0	0%	0	0%

803: Cu	rb								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(LF)	66	33	50%	0	0%	33	50%	0	0%

Downstream curb is heavily scaled on top have exposed steel. See photo.

852: Dr	ains								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	1	100%	0	0%	0	0%	0	0%

< none >

7361: D	O NOT USE Scot	ur							
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	1	100%	0	0%	0	0%	0	0%

Scour is present at the footing of abutment 1. This is not a problem at this time. Need to monitor.

Action:

## Inspection Report with SI&A Data

STRUCTURE NOTES
-60.1
INSPECTION NOTES
Both posting are in place at this time. See photos. Inspected by R.Rogers, A.Greiner.
WORK

**90 Inspection Date -** 6/23/2009 **Inspector -** RROGERS (35)

### **Inspection Report with SI&A Data**

Structure Description: 33.14 Foot - Single Span Concrete Tee Beam

**2 District:** 09 **3 County:** Fleming **16 Latitude:** 38°25′17.00″ **7 Longitude:** 83°48′18.00″

7 Facility Carried KY-32

Overlay Date:

6A Feature Intersected: MUD LICK CREEK9 Location: 1.2 MI EAST OF JCT KY 170

NBI	Χ
Element	Χ
Fracture Critical	
Underwater	
Special	

	NBI CONDITION RATINGS							
58	Deck:	5	61 Channel:	5				
59	Superstructure:	5	62 Culvert:	N				
<b>60</b>	Substructure:	4	Sufficiency Rating:	48.7				

**DESIGN** 

Subst	tandard:	Weight
43A	Main Span Material:	(1) Concrete
43B	Main Span Design:	(04) Tee Beam
45	Number of Spans Main:	1
44A	Approach Span Material:	Not Applicable (0)
44B	Approach Span Design:	Unknown (P)
46	<b>Number of Approach Spans:</b>	0
107	Deck Type:	(1) Concrete-Cast-in-Place
108A	Wearing Surface:	(6) Bituminous
108B	Membrane:	(0) None
108C	Deck Protection:	(0) None
Overl	ay Y/N:	Yes
Overl	ay Type:	Asphalt
Overl	ay Thickness:	10.000 in

	APPRAISAL						
36A	Bridge Railings:	(1) Meets Standards					
36B	Transitions	(1) Meets Standards					
36C	Approach Guardrail:	(1) Meets Standards					
36D	Approach Guardrail Ends:	(1) Meets Standards					
71	Waterway Adequacy:	(6) Equal Minimum					
<b>72</b>	Approach Alignment:	(8) Equal Desirable Crit					
92A	Fracture Critical Inspection:	No					
92B	Under Water Inspection:	No					
113	Scour Critical:	(8) Stable above footing					
Reco	mmended Scour Critical:	(3) SC- Unstable					

		LOAD RATINGS
63	Operating Type:	(2) Allowable Stress (AS)
64	Operating Rating:	64.0 tons
65	Inventory Type:	(2) Allowable Stress (AS)
66	Inventory Rating:	34.0 tons
Truc	k Capacity Type I:	28 tons
Truc	k Capacity Type II:	29 tons
Truc	k Capacity Type III:	31 tons
Truc	k Capacity Type IV:	55 tons

	GEOMETRIC DATA					
48	Max Length Span:	29.856 ft				
49	Structure Length:	33.136 ft				
32	Approach Roadway:	20.013 ft				
33	Median:	(0) No Median				
34	Skew:	30°				
35	Flare:	No Flare				
50A	Curb/Sidewalk Width L:	1.001 ft				
50B	Curb/Sidewalk Width R:	1.001 ft				
47	Horiz. Clearance:	19.029 ft				
51	Width Curb to Curb:	19.029 ft				
<b>52</b>	Width Out to Out:	22.500 ft				

Milepoint: 7.780

	ADMINISTRATIVE					
27	Year Built:	1929				
106	Year Reconstructed:	0				
42A	Type of Service On:	(1) Highway				
42B	Type of Service Under:	(5) Waterway				
37	Historical Significance:	(5) Not Eligible				
21	<b>Maintenance Responsibility</b>	:(01) State Hwy Agency				
22	Owner:	(01) State Hwy Agency				
101	Parallel Structure:	(N) No II Structure Exists				

	CLEARANCES							
10	Vert. Clearance:	99.999 ft						
53	Min. Vert. Clearance Over:	99.999 ft						
54A	Vert. Under Reference:	(N) Feature not hwy or RR						
54B	Min. Vert. Underclearance:	0.000 ft						
55A	Lateral Under Reference:	(N) Feature not hwy or RR						
55B	Min. Lat. Underclearance R:	0.000 ft						
<b>56</b>	Min. Lat. Underclearance L:	0.000 ft						

POSTINGS							
41 Posting Status:	(P) Posted For Load						
Signs Posted Cardinal:	Yes						
Signs Posted Non-Cardinal:	Yes						
Field Postings Gross:	tons						
Field Postings Type I:	tons						
Field Postings Type II:	tons						
Field Postings Type III:	31 tons						
Field Postings Type IV:	tons						

16: Re Conc Top Flange									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	745.57	618.82	83%	126.75	17%	0	0%	0	0%

Asphalt wearing surface is in good condition at this time. See photos.

510: We	510: Wearing Surfaces								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	635.93	635.93	100%	0	0%	0	0%	0	0%

7359: DO NOT USE Concrete Efflorescenc									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	10.76	10.76	100%	0	0%	0	0%	0	0%

Asphalt wearing surface is in good condition at this time. See photos.

110: Re	110: Re Conc Opn Girder/Beam										
Units Total Qty Qty. St. 1 % in 1 Qty. St. 2 % in 2 Qty. St. 3 % in 3 Qty. St. 4 %									% in 4		
FT	132	89	67%	21	16%	22	17%	0	0%		

Upstream exterior beam has cracking and shallow cover spalling with exposed steel. Downstream exterior beam has cracking with efflorescence and shallow cover spalling with exposed steel. Interior beams are in good condition. See photos.

215: Re	215: Re Conc Abutment										
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4		
FT	104	0	0%	102	98%	2	2%	0	0%		

Abutments have some cracking and scaling at flowline. Abutment 1 has a large vertical crack at downstream end and abutment 2 has a similar vertical at upstream end. Need to monitor. See photos.

330: Metal Bridge Railing									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	66	33	50%	33	50%	0	0%	0	0%

Rail has minor impact damage. Due to condition of downstream curb, several posts are loose. This needs to be repaired soon. See photo.

515: Ste	515: Steel Protective Coating										
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4		
FT	0.3	0.3	100%	0	0%	0	0%	0	0%		

803: Cu	803: Curb								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(LF)	66	33	50%	0	0%	33	50%	0	0%

Downstream curb is heavily scaled on top have exposed steel. See photo.

852: Dra	852: Drains									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4	
(EA)	1	1	100%	0	0%	0	0%	0	0%	

7361: D	7361: DO NOT USE Scour									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4	
(EA)	1	1	100%	0	0%	0	0%	0	0%	

Scour is present at the footing of abutment 1. This is not a problem at this time. Need to monitor.

STRUCTURE NOTES					
-60.1					
INSPECTION NOTES					

	MODK				
Both posting are in place at this time. See photos. Inspected by R.Rogers, A.Greiner, and B.Howe.					

	WORK
Action:	-

**90 Inspection Date -** 7/7/2008 Inspector - RROGERS (35)

### Inspection Report with SI&A Data

Structure Description: 33.14 Foot - Single Span Concrete Tee Beam

2 District: 09 3 County: Fleming **16 Latitude:** 38°25′17.00″ **7 Longitude:** 83°48′18.00″

7 Facility Carried KY-32

**Overlay Date:** 

6A Feature Intersected: MUD LICK CREEK 9 Location: 1.2 MI EAST OF JCT KY 170

NBI	Χ
Element	Χ
Fracture Critical	
Underwater	
Special	

	NBI CONDITION RATINGS								
58	Deck:	5	61 Channel:	5					
<b>59</b>	Superstructure:	5	62 Culvert:	N					
<b>60</b>	Substructure:	4	Sufficiency Rating:	49.1					

	DESIGN								
Subst	tandard:	Weight							
43A	Main Span Material:	(1) Concrete							
43B	Main Span Design:	(04) Tee Beam							
45	Number of Spans Main:	1							
44A	Approach Span Material:	Not Applicable (0)							
44B	Approach Span Design:	Unknown (P)							
46	Number of Approach Spans:	0							
107	Deck Type:	(1) Concrete-Cast-in-Place							
108A	Wearing Surface:	(6) Bituminous							
108B	Membrane:	(0) None							
108C	Deck Protection:	(0) None							
Overl	ay Y/N:	Yes							
Overl	ау Туре:	Asphalt							
Overl	ay Thickness:	10.000 in							

	APPRA	ISAL
36A	Bridge Railings:	(1) Meets Standards
36B	Transitions	(1) Meets Standards
36C	Approach Guardrail:	(1) Meets Standards
36D	Approach Guardrail Ends:	(1) Meets Standards
71	Waterway Adequacy:	(6) Equal Minimum
<b>72</b>	Approach Alignment:	(8) Equal Desirable Crit
92A	Fracture Critical Inspection:	No
92B	Under Water Inspection:	No
113	Scour Critical:	(8) Stable above footing
Reco	mmended Scour Critical:	(3) SC- Unstable

		LOAD RATINGS
63	Operating Type:	(2) Allowable Stress (AS)
64	Operating Rating:	64.0 tons
65	Inventory Type:	(2) Allowable Stress (AS)
66	Inventory Rating:	34.0 tons
Truc	k Capacity Type I:	28 tons
Truc	k Capacity Type II:	29 tons
Truc	k Capacity Type III:	31 tons
Truc	k Capacity Type IV:	55 tons

	GEOMETR	IC DATA
48	Max Length Span:	29.856 ft
49	Structure Length:	33.136 ft
32	Approach Roadway:	20.013 ft
33	Median:	(0) No Median
34	Skew:	30°
35	Flare:	No Flare
50A	Curb/Sidewalk Width L:	1.001 ft
50B	Curb/Sidewalk Width R:	1.001 ft
47	Horiz. Clearance:	19.029 ft
51	Width Curb to Curb:	19.029 ft
<b>52</b>	Width Out to Out:	22.500 ft

Milepoint: 7.780

	ADMINISTE	RATIVE
27	Year Built:	1929
106	Year Reconstructed:	0
42A	Type of Service On:	(1) Highway
42B	Type of Service Under:	(5) Waterway
37	Historical Significance:	(5) Not Eligible
21	<b>Maintenance Responsibility</b>	:(01) State Hwy Agency
22	Owner:	(01) State Hwy Agency
101	Parallel Structure:	(N) No II Structure Exists

	CLEARANCES									
10	Vert. Clearance:	99.999 ft								
53	Min. Vert. Clearance Over:	99.999 ft								
54A	Vert. Under Reference:	(N) Feature not hwy or RR								
54B	Min. Vert. Underclearance:	0.000 ft								
55A	Lateral Under Reference:	(N) Feature not hwy or RR								
55B	Min. Lat. Underclearance R:	0.000 ft								
<b>56</b>	Min. Lat. Underclearance L:	0.000 ft								

POST	TINGS
41 Posting Status:	(P) Posted For Load
Signs Posted Cardinal:	Yes
Signs Posted Non-Cardinal:	Yes
Field Postings Gross:	tons
Field Postings Type I:	tons
Field Postings Type II:	tons
Field Postings Type III:	31 tons
Field Postings Type IV:	tons

**90 Inspection Date -** 7/7/2008 **Inspector -** RROGERS (35)

### **Inspection Report with SI&A Data**

16: Re Conc Top Flange									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	745.57	618.82	83%	126.75	17%	0	0%	0	0%

< none >

510: Wearing Surfaces									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	635.93	635.93	100%	0	0%	0	0%	0	0%

7359: DO NOT USE Concrete Efflorescenc									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	10.76	10.76	100%	0	0%	0	0%	0	0%

< none >

110: Re Conc Opn Girder/Beam									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	132	89	67%	21	16%	22	17%	0	0%

Upstream exterior beam has cracking and shallow cover spalling with exposed steel. Downstream exterior beam has cracking with efflorescence and shallow cover spalling with exposed steel. Interior beams are in good condition. See photos.

215: Re Conc Abutment									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	104	0	0%	102	98%	2	2%	0	0%

Abutments have some cracking and scaling at flowline. Abutment 1 has a large vertical crack at downstream end and abutment 2 has a similar vertical at upstream end. Need to monitor. See photos.

**90 Inspection Date -** 7/7/2008 **Inspector -** RROGERS (35)

### **Inspection Report with SI&A Data**

330: Me	tal Bridge Railin	g							
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	66	33	50%	33	50%	0	0%	0	0%

Rail has minor impact damage. Due to condition of downstream curb, several anchor bolts are loose. See photo.

515: Ste	515: Steel Protective Coating												
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4				
FT	0.3	0.3	100%	0	0%	0	0%	0	0%				

803: Cu	ırb								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(LF)	66	33	50%	0	0%	33	50%	0	0%

Downstream curb is heavily scaled on top have exposed steel. See photo.

852: Dra	ains								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	0	0%	1	100%	0	0%

Drains are partially blocked with asphalt overlay. See photos.

855: De	bris on Super								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	0	0%	1	100%	0	0%

Heavy siltation under bridge at this time is restricting flow. See photos.

Inspector - RROGERS (35)

Inspection Report with SI&A Data

858: Ch	annel Alignment								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	1	100%	0	0%	0	0%

< none >

859: Ve	getation								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	0	0%	1	100%	0	0%

Vegetation needs to be cut and sprayed. See photos.

860: Erd	osion Ctrl/Prt								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	1	100%	0	0%	0	0%

Gabion baskets appear to be working well at this time. See photo.

7361: D	O NOT USE Scot	ur							
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	1	100%	0	0%	0	0%	0	0%

Scour is present at the footing of abutment 1. This is not a problem at this time. Need to monitor.

	STRUCTURE NOTES
-60.1	

### INSPECTION NOTES

	WORK
Action: -	

**90 Inspection Date -** 7/13/2007 **Inspector -** RROGERS (35)

### **Inspection Report with SI&A Data**

Structure Description: 33.14 Foot - Single Span Concrete Tee Beam

**2 District:** 09 **3 County:** Fleming **16 Latitude:** 38°25′17.00″ **7 Longitude:** 83°48′18.00″

7 Facility Carried KY-32

**Overlay Date:** 

6A Feature Intersected: MUD LICK CREEK9 Location: 1.2 MI EAST OF JCT KY 170

NBI	Χ
Element	Χ
Fracture Critical	
Underwater	
Special	

	NBI CONDITION RATINGS							
<b>5</b> 8	Deck:	5	61 Channel:	5				
<b>59</b>	Superstructure:	5	62 Culvert:	N				
<b>60</b>	Substructure:	4	Sufficiency Rating:	48.1				

**DESIGN** 

	DEGIGIA						
Subst	tandard:	Weight					
43A	Main Span Material:	(1) Concrete					
43B	Main Span Design:	(04) Tee Beam					
45	Number of Spans Main:	1					
44A	Approach Span Material:	Not Applicable (0)					
44B	Approach Span Design:	Unknown (P)					
46	<b>Number of Approach Spans:</b>	0					
107	Deck Type:	(1) Concrete-Cast-in-Place					
108A	Wearing Surface:	(6) Bituminous					
108B	Membrane:	(0) None					
108C	Deck Protection:	(0) None					
Overl	ay Y/N:	Yes					
Overl	ау Туре:	Asphalt					
Overl	ay Thickness:	10.000 in					

	APPRAISAL						
36A	Bridge Railings:	(1) Meets Standards					
36B	Transitions	(1) Meets Standards					
36C	Approach Guardrail:	(1) Meets Standards					
36D	Approach Guardrail Ends:	(1) Meets Standards					
71	Waterway Adequacy:	(7) Above Minimum					
<b>72</b>	Approach Alignment:	(8) Equal Desirable Crit					
92A	Fracture Critical Inspection:	No					
92B	Under Water Inspection:	No					
113	Scour Critical:	(5) Stable w/in footing					
Reco	mmended Scour Critical:	(6) Calcs Not Made					

		LOAD RATINGS
63	Operating Type:	(2) Allowable Stress (AS)
64	Operating Rating:	64.0 tons
65	Inventory Type:	(2) Allowable Stress (AS)
66	Inventory Rating:	34.0 tons
Truck	Capacity Type I:	28 tons
Truck	Capacity Type II:	29 tons
Truck	Capacity Type III:	31 tons
Truck	Capacity Type IV:	55 tons

	GEOMETRIC DATA							
48	Max Length Span:	29.856 ft						
49	Structure Length:	33.136 ft						
32	Approach Roadway:	20.013 ft						
33	Median:	(0) No Median						
34	Skew:	30°						
35	Flare:	No Flare						
50A	Curb/Sidewalk Width L:	1.001 ft						
50B	Curb/Sidewalk Width R:	1.001 ft						
47	Horiz. Clearance:	19.029 ft						
51	Width Curb to Curb:	19.029 ft						
<b>52</b>	Width Out to Out:	22.500 ft						

Milepoint: 7.780

	ADMINIST	2 A TIV/E						
	ADMINISTRATIVE							
27	Year Built:	1929						
106	Year Reconstructed:	0						
42A	Type of Service On:	(1) Highway						
42B	Type of Service Under:	(5) Waterway						
<b>37</b>	Historical Significance:	(5) Not Eligible						
21	<b>Maintenance Responsibility</b>	:(01) State Hwy Agency						
22	Owner:	(01) State Hwy Agency						
101	Parallel Structure:	(N) No II Structure Exists						

	CLEARANCES							
10	Vert. Clearance:	99.999 ft						
53	Min. Vert. Clearance Over:	99.999 ft						
54A	Vert. Under Reference:	(N) Feature not hwy or RR						
54B	Min. Vert. Underclearance:	0.000 ft						
55A	Lateral Under Reference:	(N) Feature not hwy or RR						
55B	Min. Lat. Underclearance R:	0.000 ft						
56	Min. Lat. Underclearance L:	0.000 ft						

POSTINGS							
41 Posting Status:	(P) Posted For Load						
Signs Posted Cardinal:	Yes						
Signs Posted Non-Cardinal:	Yes						
Field Postings Gross:	tons						
Field Postings Type I:	tons						
Field Postings Type II:	tons						
Field Postings Type III:	34 tons						
Field Postings Type IV:	tons						

16: Re Conc Top Flange									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	745.57	618.82	83%	126.75	17%	0	0%	0	0%
,									

510: Wearing Surfaces									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	635.93	635.93	100%	0	0%	0	0%	0	0%
		·							

7359: DO NOT USE Concrete Efflorescenc									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	10.76	10.76	100%	0	0%	0	0%	0	0%
					•				

110: Re Conc Opn Girder/Beam									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	132	89	67%	21	16%	22	17%	0	0%

Upstream exterior beam has cracking and shallow cover spalling with exposed steel. Downstream exterior beam has cracking with efflorescence and shallow cover spalling with exposed steel. Interior beams are in good condition.

215: Re	Conc Abutment								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	104	0	0%	102	98%	2	2%	0	0%

Abutments have some cracking and scaling at flowline. Abutment 1 has a large vertical crack at downstream end and abutment 2 has a similar vertical at upstream end. Need to monitor.

330: Metal Bridge Railing										
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4	
FT	66	66	100%	0	0%	0	0%	0	0%	

515: Steel Protective Coating										
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4	
FT	0.3	0.3	100%	0	0%	0	0%	0	0%	
	,									

803: Cu	rb								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(LF)	66	33	50%	0	0%	33	50%	0	0%

Downstream curb is heavily scaled on top have exposed steel.

852: Dra	ains								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	0	0%	1	100%	0	0%

Drains are partially blocked with asphalt overlay.

855: De	bris on Super								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	0	0%	1	100%	0	0%

Heavy siltation under bridge at this time is restricting flow.

858: Channel Alignment									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	1	100%	0	0%	0	0%

859: Ve	egetation								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	0	0%	1	100%	0	0%

Vegetation needs to be cut and sprayed.

860: Erd	osion Ctrl/Prt								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(EA)	1	0	0%	1	100%	0	0%	0	0%

Gabion baskets appear to be working well at this time.

STR	LICTI	IDE	NO	LEC
ЭІК	$\mathbf{u}\mathbf{v}\mathbf{l}$	JRE	NU	I E 3

-60.1

#### **INSPECTION NOTES**

WORK	
Action: -	

**90 Inspection Date -** 7/1/2005 **Inspector -** Pontis (1)

Inspection Report with SI&A Data

Structure Description: 33.14 Foot - Single Span Concrete Tee Beam

**2 District:** 09 **3 County:** Fleming **16 Latitude:** 38°25′17.00″ **7 Longitude:** 83°48′18.00″

7 Facility Carried KY-32

**6A Feature Intersected:** MUD LICK CREEK **9 Location:** 1.2 MI EAST OF JCT KY 170

NBI	Χ
Element	
Fracture Critical	
Underwater	
Special	

		NBI CON	IDITION RATINGS	
<b>5</b> 8	Deck:	5	61 Channel:	5
59	Superstructure:	5	62 Culvert:	N
<b>60</b>	Substructure:	4	Sufficiency Rating:	49.1

**DESIGN** 

Substandard:		Weight
43A	Main Span Material:	(1) Concrete
43B	Main Span Design:	(04) Tee Beam
45	Number of Spans Main:	1
44A	Approach Span Material:	Not Applicable (0)
44B	Approach Span Design:	Unknown (P)
46	<b>Number of Approach Spans:</b>	0
107	Deck Type:	(1) Concrete-Cast-in-Place
108A	Wearing Surface:	(6) Bituminous
108B	Membrane:	(0) None
108C	Deck Protection:	(0) None
Overl	ay Y/N:	Yes
Overl	ay Type:	Asphalt
Overl	ay Thickness:	10.000 in
Overl	ay Date:	

	APPRAISAL				
36A	Bridge Railings:	(1) Meets Standards			
36B	Transitions	(1) Meets Standards			
36C	Approach Guardrail:	(1) Meets Standards			
36D	Approach Guardrail Ends:	(1) Meets Standards			
71	Waterway Adequacy:	(7) Above Minimum			
<b>72</b>	Approach Alignment:	(8) Equal Desirable Crit			
92A	Fracture Critical Inspection:	No			
92B	Under Water Inspection:	No			
113	Scour Critical:	(5) Stable w/in footing			
Reco	mmended Scour Critical:	(6) Calcs Not Made			

		LOAD RATINGS
63	Operating Type:	(2) Allowable Stress (AS)
64	Operating Rating:	64.0 tons
65	Inventory Type:	(2) Allowable Stress (AS)
66	Inventory Rating:	34.0 tons
Truck	Capacity Type I:	28 tons
Truck	Capacity Type II:	29 tons
Truck	Capacity Type III:	31 tons
Truck Capacity Type IV:		55 tons
		·

	GEOMETRIC DATA				
48	Max Length Span:	29.856 ft			
49	Structure Length:	33.136 ft			
32	Approach Roadway:	20.013 ft			
33	Median:	(0) No Median			
34	Skew:	30°			
35	Flare:	No Flare			
50A	Curb/Sidewalk Width L:	1.001 ft			
50B	Curb/Sidewalk Width R:	1.001 ft			
47	Horiz. Clearance:	19.029 ft			
51	Width Curb to Curb:	19.029 ft			
52	Width Out to Out:	22.500 ft			

Milepoint: 7.780

	ADMINISTRATIVE			
27	Year Built:	1929		
106	Year Reconstructed:	0		
42A	Type of Service On:	(1) Highway		
42B	Type of Service Under:	(5) Waterway		
37	Historical Significance:	(5) Not Eligible		
21	<b>Maintenance Responsibility</b>	:(01) State Hwy Agency		
22	Owner:	(01) State Hwy Agency		
101	Parallel Structure:	(N) No II Structure Exists		

	CLEARANCES				
10	Vert. Clearance:	99.999 ft			
53	Min. Vert. Clearance Over:	99.999 ft			
54A	Vert. Under Reference:	(N) Feature not hwy or RR			
54B	Min. Vert. Underclearance:	0.000 ft			
55A	Lateral Under Reference:	(N) Feature not hwy or RR			
55B	Min. Lat. Underclearance R:	0.000 ft			
<b>56</b>	Min. Lat. Underclearance L:	0.000 ft			

POSTINGS				
<b>41 Posting Status:</b> (P) Posted For Load				
Signs Posted Cardinal:	Yes			
Signs Posted Non-Cardinal:	Yes			
Field Postings Gross:	tons			
Field Postings Type I:	tons			
Field Postings Type II:	tons			
Field Postings Type III:	34 tons			
Field Postings Type IV:	tons			

**90 Inspection Date -** 7/1/2005 Inspector - Pontis (1)

## Inspection Report with SI&A Data

:									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
			%		%		%		%

	STRUCTURE NOTES
-60.1	

INSPECTION NOTES
_

	WORK
Action:	-



View of the posting sign near abutment 1.



Typical view of the asphalt wearing surface.



View of minor to moderate scaling/spalling along the downstream curb.



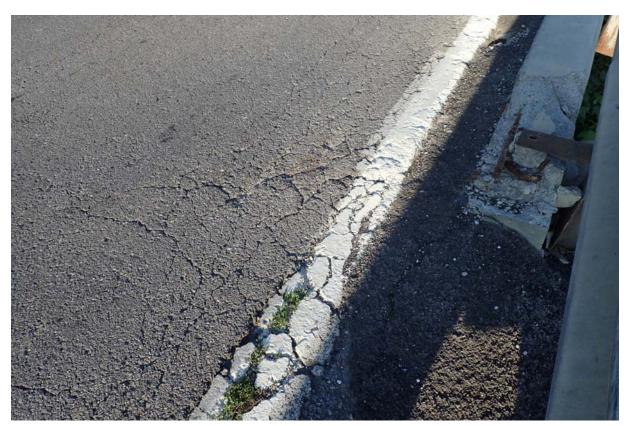
View of the weight limit posting near abutment 2.



View of broken/spalled area in the downstream curb at abutment 2. Notice the guardrail post is no longer connected



View of broken/spalled area in the downstream curb at abutment 2. Notice the guardrail post is no longer connected.



View of rutting and a heavy intensity of cracking along the downstream shoulder of the wearing surface near abutment 2.



View of disconnected guardrail post 2 from the north in the downstream curb.



View of rutting, patching, and a heavy intensity of cracking along the downstream shoulder of the wearing surface.



View of the downstream guardrail pushed out from the bridge.



View of moderate spalling in the upstream curb near abutment 2.



Typical view from upstream.



View of moderate spalling and minor sized cracking at the upstream end of abutment 1s wingwall.



View of minor sized cracking in the upstream beam at abutment 1. Notice the moderate spalling with exposed steel in the deck overhang.



Moderate longitudinal cracking the lower exterior face of the upstream beam near midspan.



View of minor sized heavy intensity of cracking in the exterior face of the upstream beam and diaphragm at abutment 2. Notice the moderate to heavy spalling in the upstream deck overhang.

8/19



View of a 3/16" wide vertical crack in abutment 2 below the upstream beam.



View of several small to medium sized spalls along the interior face of the upstream beam.



View of heavy spalling with exposed steel in the interior face of the upstream beam near midspan. Notice the exposed longitudinal reinforcement.



View of moderate cracking and spalling with exposed steel in the interior face of the upstream beam near abutment 2.

10/19



View of minor delamination cracking in the downstream face of beam 2 from upstream near abutment 2.



View of a 3/16" wide (typically) crack in abutment 1 below beam 3 from upstream.



View of a 3/16" wide (typically) crack in abutment 1 below beam 3 from upstream.



View of a heavy intensity of minor sized cracking with efflorescence in the deck, downstream beam, and diaphragm at/near abutment 1.

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View of cracking with efflorescence in the underside of the downstream beam near abutment 1.



View of scattered cracking with efflorescence and spalling with exposed steel in the deck underside between beams 3 and 4 from upstream.



View of moderate to heavy intensity of minor sized cracking with efflorescence in the deck underside and diaphragm between beams 3 and 4 from upstream at abutment 2.



View of minor sized cracking of moderate intensity in the interior face of the downstream beam near abutment 2.



View of minor to moderate sized cracking (heavy intensity) at the downstream end of abutment 2.



View of minor sized cracking of moderate intensity in the exterior face of the downstream beam near abutment 2.



View of heavy spalling in the downstream deck overhang near guardrail post 4 from the south. Notice the moderate spalls with exposed steel in the beam.



View of heavy spalling in the downstream deck overhang between guardrail posts 2 and 3 from the south. Notice the moderate spalls with exposed steel in the beam.

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View of minor sized cracking of moderate-heavy intensity in the exterior face of the downstream beam near abutment 1. Notice the shallow spalling with exposed steel in the beam.



View of minor sized cracking of moderate-heavy intensity in the exterior face of the downstream beam near abutment 1.



View of a patched area in the downstream overhang near abutment 1.



View from downstream.



View from downstream. Notice that all the normal flow is along abutment 1.