

Appendix A  
2013 Appraisal Sheet,  
KY 1286 Bridge over Perkins Creek



# Structure Inventory and Appraisal Sheet (English Units)

Bridge Key: 14726      Agency ID: 073B00167N      SR: 99.1      SD/FO: ND

**IDENTIFICATION**

State 1: 21 Kentucky      Struc Num 8: 073B00167N  
 Facility Carried 7: KY. 1286      Location 9: .94 MI N. OF JCT US 62  
 Rte.(On/Under)5A: Route On Structure      Rte. Signing Prefix 5B: 3 State Hwy  
 Level of Service 5C: 1 Mainline      Rte. Number 5D: 01286  
 Directional Suffix 5E: 0 N/A (NBI)      % Responsibility : Unknown  
 SHD District 2: District 1      County Code 3: McCracken (073)  
 Place Code 4: FIPS 0000      Mile Post 11: 5.896 mi  
 Feature Intersected 6: OVER PERKINS CREEK  
 Latitude 16: 37d 02' 08"      Longitude 17: 088d 24' 44"  
 Border Bridge Code 98: Unknown (P)  
 Border Bridge Number 99:

**INSPECTION**

Frequency 91: 24 months      Inspection Date 90: 6/11/2013      Next Inspection: 06/11/2015  
 FC Frequency 92A: NA      FC Inspection Date 93A: NA      Next FC Inspection: NA  
 UW Frequency 92B: NA      UW Inspection Date 93B: NA      Next UW Inspection: NA  
 SI Frequency 92C: NA      SI Date 93C: NA      Next SI: NA  
 Element Frequency: 24 months      Element Inspection Date: 06/11/2013      Next Elem. Insp. Due:06/11/2015

**CLASSIFICATION**

Defense Highway 100: 0 Not a STRAHNET hwy      Parallel Structure 101: No || bridge exists  
 Direction of Traffic 102: 2 2-way traffic      Temporary Structure 103: Not Applicable (P)  
 Highway System 104: 0 Not on NHS      NBIS Length 112: Long Enough  
 Toll Facility 20: 3 On free road      Functional Class 26: 16 Urban Minor Arterial  
 Defense Hwy 110: 0 Not a STRAHNET hwy      Historical Significance 37: 5 Not eligible for NRHP  
 Owner 22: 01 State Highway Agency  
 Custodian 21: 01 State Highway Agency

**STRUCTURE TYPE AND MATERIALS**

Number of Approach Spans 46: 0      Number of Spans Main Unit 45: 1  
 Main Span Material/Design 43A/B:  
 5 Prestressed Concrete      06 Single/Spread Box  
 Deck Type 107: 1 Concrete-Cast-in-Place  
 Wearing Surface 108A: 1 Monolithic Concrete  
 Membrane 108B: 0 None  
 Deck Protection 108C: 1 Epoxy Coated Reinforci

**CONDITION**

Deck 58: 8 Very Good      Super 59: 8 Very Good      Sub 60: 8 Very Good  
 Culvert 62: N N/A (NBI)      Channel/Channel Protection 61: 8 Protected

**LOAD RATING AND POSTING**

Inventory Rating Method 65: 1 LF Load Factor      Operating Rating Method 63: 1 LF Load Factor  
 Inventory Rating 66: HS25.0      Operating Rating 64: HS41.6  
 Design Load 31: 9 MS 22.5 (HS 25)      Posting 70: 5 At/Above Legal Loads  
 Posting status 41: A Open, no restriction

**AGE AND SERVICE**

Year Built 27: 2007      Year Reconstructed 106: 0  
 Type of Service on 42A: 1 Highway  
 Type of Service under 42B: 5 Waterway  
 Lanes on 28A: 2      Lanes Under 28B: 0      Detour Length 19: 4.0 mi  
 ADT 29: 2,914      Truck ADT 109: 3 %      Year of ADT 30: 2012

**APPRAISAL**

Bridge Rail 36A: 1 Meets Standards      Approach Rail 36C: 1 Meets Standards  
 Transition 36B: 1 Meets Standards      Approach Rail Ends 36D: 1 Meets Standards  
 Str. Evaluation 67: 8      Deck Geometry 68: 6 Equal Min Criteria  
 Underclearance, Vertical and Horizontal 69: N Not applicable (NBI)  
 Waterway Adequacy 71: 7 Above Minimum      Approach Alignment 72: 8 Equal Desirable Crit  
 Scour Critical 113: 8 Stable Above Footing

**GEOMETRIC DATA**

Length Max Span 48: 60.0 ft      Structure Length 49: 63.3 ft  
 Curb/Sdwik Width L 50A: 1.5 ft      Curb/Sidewalk Width R 50B: 1.5 ft  
 Width Curb to Curb 51: 40.0 ft      Width Out to Out 52: 43.0 ft  
 Approach Roadway Width 32: 24.0 ft      Median 33: 0 No median (w/ shoulders)  
 Deck Area: 2,721.8 sq. ft  
 Skew 34: 35.00 °      Structure Flared 35: 0 No flare  
 Vertical Clearance 10: 99.99 ft      Horiz. Clearance 47: 40.00 ft  
 Minimum Vertical Clearance Over Bridge 53: 328.1 ft  
 Minimum Vertical Underclearance Reference 54A: N Feature not hwy or RR  
 Minimum Vertical Underclearance 54B: 0.0 ft  
 Minimum Lateral Underclearance Reference R 55A: N Feature not hwy or RR  
 Minimum Lateral Underclearance R 55: 0.0 ft  
 Minimum Lateral Underclearance L 56: 0.0 ft

**PROPOSED IMPROVEMENTS**

Bridge Cost 94: Unknown      Type of Work 75: Unknown (P)  
 Roadway Cost 95: Unknown      Length of Improvement 76:  
 Total Cost 96: Unknown      Future ADT 114: 3,292  
 Year of Cost Estimate 97: Unknown      Year of Future ADT 115: 2032

**NAVIGATION DATA**

Navigation Control 38: 0 Permit Not Required  
 Vertical Clearance 39: 0.0 ft      Horizontal Clearance 40: 0.0 ft  
 Pier Protection 111: Not Applicable (P)      Lift Bridge Vertical Clearance 116: 0.0 ft

**ELEMENT CONDITION STATE DATA**

Str Unit	Elm/Env	Description	Units	Total Qty	% in 1	Qty. St. 1	% in 2	Qty. St. 2	% in 3	Qty. St. 3	% in 4	Qty. St. 4	% in 5	Qty. St. 5
Unit 1	26/1	Conc Deck/Coatd Bars	(SF)	2,530	100 %	2,530	0 %	0	0 %	0	0 %	0	0 %	0
Unit 1	104/1	P/S Conc Box Girder	(LF)	316	100 %	316	0 %	0	0 %	0	0 %	0	0 %	0
Unit 1	234/1	R/Conc Cap	(LF)	120	100 %	120	0 %	0	0 %	0	0 %	0	0 %	0
Unit 1	331/1	Conc Bridge Railing	(LF)	126	100 %	126	0 %	0	0 %	0	0 %	0	0 %	0
Unit 1	359/1	Soffit Smart Flag	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
Unit 1	605/1	Transitions	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0

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Str Unit	Elm/Env	Description	Units	Total Qty	% in 1	Qty. St. 1	% in 2	Qty. St. 2	% in 3	Qty. St. 3	% in 4	Qty. St. 4	% in 5	Qty. St. 5
Unit 1	606/1	Drains	(EA)	1	0 %	0	100 %	1	0 %	0	0 %	0	0 %	0
Unit 1	609/1	Debris on Superstruc	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
Unit 1	612/1	Chan Algn	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
Unit 1	613/1	Vegetation	(EA)	1	0 %	0	100 %	1	0 %	0	0 %	0	0 %	0
Unit 1	614/1	Eros Contr	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0

Str Unit	Elm/Env	Description	Element Notes
Unit 1	26/1	Concrete Deck - Protected w/ Coat	Minor cracking in deck.
Unit 1	104/1	P/S Conc Closed Web/Box Girder	< none >
Unit 1	234/1	Reinforced Conc Cap	
Unit 1	331/1	Reinforced Conc Bridge Railing	Random vertical cracking with leaching, minor scaling of masonry coating
Unit 1	359/1	Soffit of Concrete Deck or Slab	Stay in place forms.
Unit 1	605/1	Transitions (Approach/Deck)	Minor settlement both ends, minor impact
Unit 1	606/1	Drains	Clean and sweep gutterlines
Unit 1	609/1	Debris (On/Around Super)	Minor from high water events
Unit 1	612/1	Channel Alignment	< none >
Unit 1	613/1	Vegetation	Cut small trees growing around structure, spray weeds.
Unit 1	614/1	Erosion Control/Protection	< none >

### BRIDGE NOTES

Replaced 073B00077N (SW)

### PAST INSPECTION

Inspection Date: 06/11/2013

Type: 2 Standard (24 months)

Inspector: SVICK

Pontis User Key: SVICK - Steven Vi

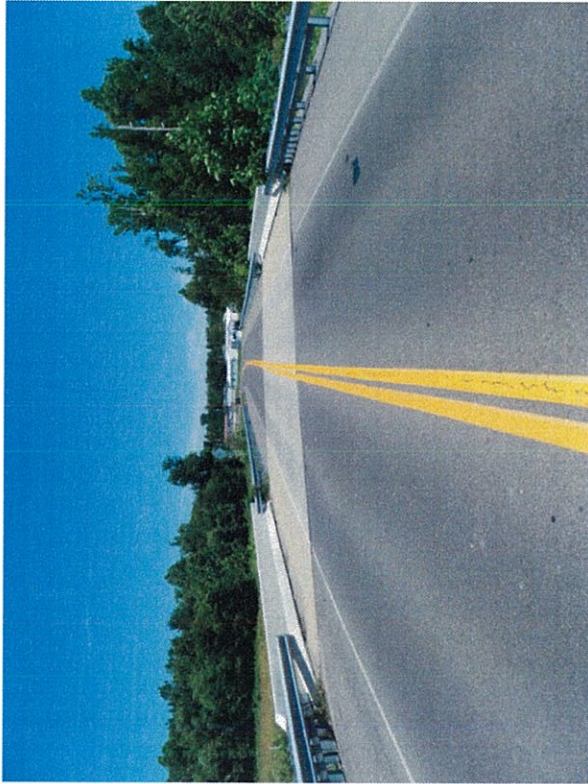
### Scope:

NBI:  Other:  Element:   
 Underwater:  Fracture Critical:

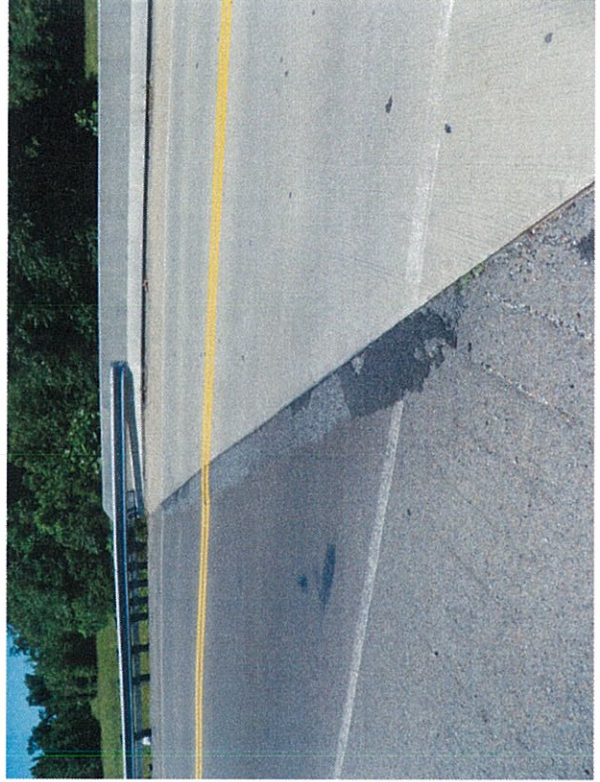
### INSPECTION NOTES

High water events get into superstructure.





Looking North

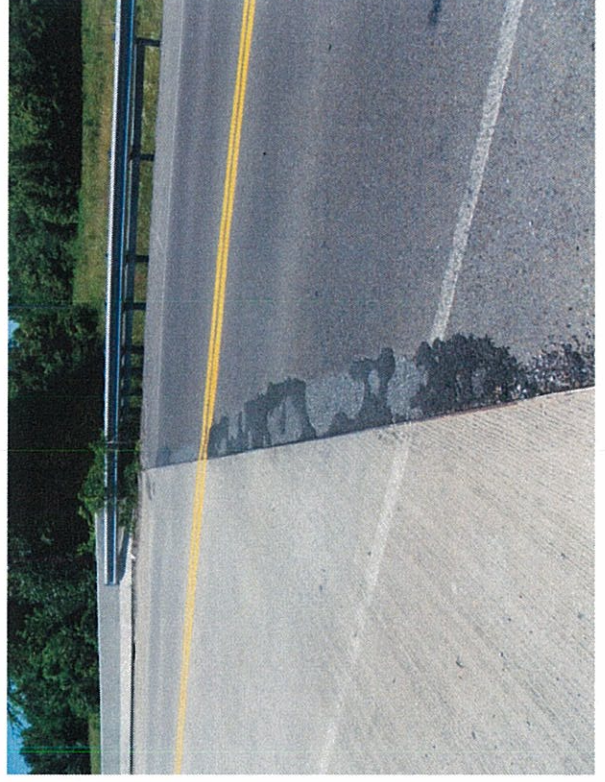


South end

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073B00167N



Deck area



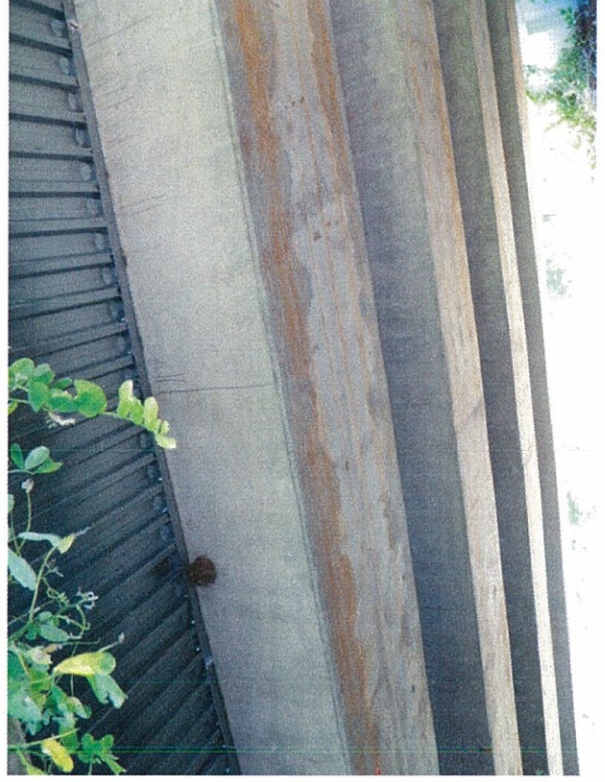
North end

06/11/2013  
073B00167N





End Bent 1

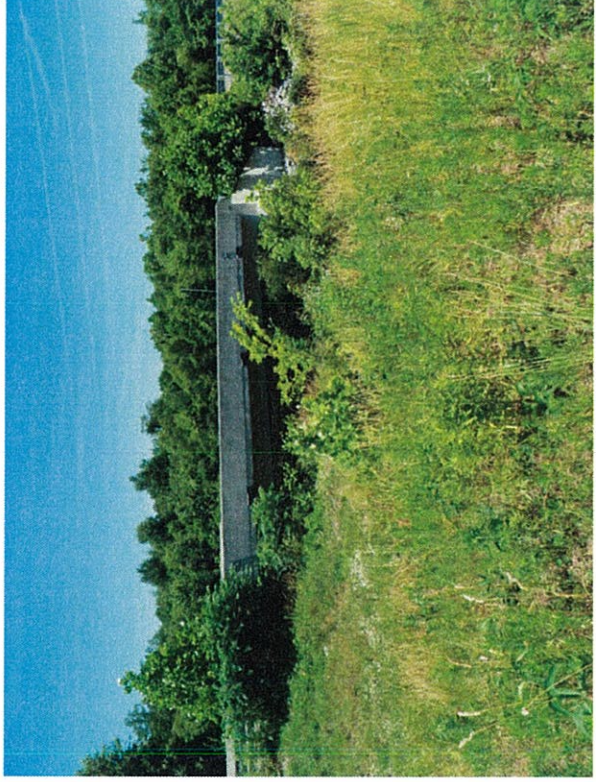


Concrete box beams

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End Bent 2



Downstream face

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Upstream face



Upstream

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Downstream

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