

## BRIDGE INSPECTION REPORT

4303040

BRIDGE NUMBER

LAK 00084 1888

YEAR BUILT

2006

Structure File Number

DIST 12

Bridge Type 221

TYPE SERVICE 1 5

GRAND RIVER

<b>DECK</b>	out/out 42 Deck Area 30,925 sqft		2 INTEGRAL CONCRETE (MONOLITHIC)	
1. FLOOR	1 REINF CONCRT (PRESTRSD, PRECAST)	1	2. WEARING SURFACE	Thk 1 Wear Date 8/16/2006 1
3. CURBS, SIDEWALKS AND WALKWAYS	Left 2 SIDEWALK(>2') / Right 2 SIDEWALK(>2')	1	4. MEDIAN	Lanes on 2
5. RAILING	1 REINFORCED CONCRETE PARAPET	1	6. DRAINAGE	3 SCUPPERS & DWNSPTS 1
7. EXPANSION JOINTS	8 ELASTOMERIC STRIP SEAL	1	8. SUMMARY	8
<b>SUPERSTRUCTURE</b>			7 CONCRETE GIRDER	
9. ALIGNMENT	Max Spans 110	1	10. BEAMS/GIRDERS/SLAB	1
11. DIAPHRAGMS or CROSSFRAMES		1	12. JOISTS/STRINGERS	
13. FLOOR BEAMS			14. FLOOR BEAM CONNECTIONS	
15. VERTICALS			16. DIAGONALS	
17. END POSTS			18. UPPER CHORD	
19. LOWER CHORD			20. GUSSET PLATES	
21. LATERAL BRACING			22. SWAY BRACING	
23. PORTALS			24. BEARING DEVICES	C ELASTOMERIC (LAMIN.) 1
25. ARCH			26. ARCH COLUMNS or HANGERS	
27. SPANDREL WALLS			28. PROTECTIVE COATING SYSTEM	
29. PINS/HANGERS/HINGES			30. FATIGUE PRONE DETAIL (E, E')	
31. LIVE LOAD RESPONSE (E OR S)		S	32. SUMMARY	8
<b>SUBSTRUCTURE</b>			9 STUB-CAPPED PILE(MULTIPLE ROW PILES)	
33. ABUTMENTS	6 STUB-CAPPED PILE (SINGLE ROW PILES)	1	34. ABUTMENT SEATS	Abutment: ON PILING 1
35. PIERS		1	36. PIER SEATS	5 CAPPED COLUMN Piers: ON PILING 1
37. BACKWALLS			38. WINGWALLS	1
39. FENDERS and DOLPHINS	Piers = 04 02 NN Spans = 7		40. SCOUR (INSP TYPE - 1,2,3)	2 1
41. SLOPE PROTECTION	3 RIP RAP (DUMPED ROCK)	1	42. SUMMARY	Dive Date 10/27/2009 7
<b>CULVERTS</b>				
43. GENERAL	N NONE/NOT APPLICABLE		44. ALIGNMENT	
45. SHAPE			46. SEAMS	
47. HEADWALLS or ENDWALLS	Culvert Length 0		48. SCOUR (INSP TYPE - 1,2,3)	
49. ABUTMENT			50. SUMMARY	
<b>CHANNEL</b>				
51. ALIGNMENT		2	52. PROTECTION	5 RIP RAP (DUMPED ROCK OR ROCK) 2
53. HYDRAULIC OPENING	8 SLIGHT CHANCE OVERTOPPING APPR	1	54. SUMMARY	6
<b>APPROACHES</b>				
55. PAVEMENT	2 BITUMINOUS	2	56. APPROACH SLABS	1
57. GUARDRAIL	1 STEEL BEAM	1	58. RELIEF JOINTS	
59. EMBANKMENT		1	60. SUMMARY	Percent Legal = 150 6
<b>GENERAL</b>				
61. NAVIGATION LIGHTS			62. WARNING SIGNS	Maint Resp 1 OHIO TRAN DEPT 4
63. SIGN SUPPORTS	Signs on = N MVC on = 9999.9		64. UTILITIES	2
65. VERTICAL CLEARANCE	Under C = 0 Under NC = 0	N	66. GENERAL APPRAISAL & OPERATIONAL STATUS	7 A

67. INSPECTED BY

68. REVIEWED BY

SIGNED

PE Number

SIGNED

59487

PE Number

Name KENNETH BANASZAK

Name YOUSSEF SEIF

DATE 11/26/2013

1 1 1 1 N N N N

DATE 1/22/2014

SURVEY

## DECK

FLOOR: MINOR CRACKS. <1% DETERIORATED.  
WEARING SURFACE: MINOR CRACKS. LIGHT SCALING. <1% DET.  
RAILINGS: VERTICAL CRACKS. PEELED TOP COAT ON RIGHT RAIL.  
DRAINAGE: ISOLATED SMALL PONDING ALONG CURBS.

## SUPERSTRUCTURE

BEAMS: SMALL CHIPS ON LOWER FLANGES OF FASCIA BEAMS.  
DIAPHRAGMS: 5 SF SPALL TO CONCRETE IN BAY #2 OVER PIER #1.

## SUBSTRUCTURE

PIERS: CRACKS IN STEMS.  
SCOUR: SCOUR HOLES AT UPSTREAM NOSES OF PIERS 1,2 AND 3.  
UPSTREAM HALF OF PIER 2 FOOTING WITH 3" VERTICAL FACE IS  
EXPOSED TO FLOWING STREAM WATER (6' DEEP SCOUR HOLE).  
SLOPE PROTECTION: A FEW STONES HAS WASHED AWAY.

## CHANNEL

ALIGNMENT: CHANNEL MAKES 90 DEGREE BEND JUST UPSTREAM OF  
BRIDGE. BRAIDED CHANNEL DURING HIGH FLOW. SOME DIAGONAL  
FLOW INTO PIER STEMS 1 & 2.  
PROTECTION: LARGE STONE AROUND BASES OF PIERS 4, 5 AND 6  
HAVE PARTIALLY WASHED AWAY.  
HYDRAULIC OPENING: 6' HIGH PILE OF TREES AND DEBRIS IN  
SPANS 4 & 5 BLOCK 5% OF CHANNEL (THIS IS AT THE OVERFLOW  
AREA).

## APPROACHES

PAVEMENT: A FEW CRACKS.  
APPROACH SLABS: VEHICLES BOUNCE ONTO AND OFF OF BRIDGE. SOME  
  
CRACKS TO REAR CONCRETE APPROACH SLAB. TRANSVERSE CRACKS  
FULL WIDTH AT REAR AND LONGITUDINAL CRACKS AT FORWARD.

## GENERAL

WARNING SIGNS: NO BRIDGE END MARKERS.  
UTILITIES: SOME MISALIGNMENT OF 16" PIPE IN BAY #3 WITH  
CONSTANT LEAKING AT THE RELEIF VALVE IN SPAN 6.