

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

DECK	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
SUPERSTRUCTURE			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
SUBSTRUCTURE			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)	2	42. SUMMARY	Dive Date 10/27/2009 7
CULVERTS				
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	
CHANNEL				
51. ALIGNMENT		2	52. PROTECTION	5 RIP RAP (DUMPED ROCK OR ROCK) 2
53. HYDRAULIC OPENING	8 SLIGHT CHANCE OVERTOPPING	2	54. SUMMARY	5
APPROACHES				
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
GENERAL				
61. NAVIGATION LIGHTS			62. WARNING SIGNS	Maint Resp 1 OHIO TRAN DEPT 4
63. SIGN SUPPORTS	Signs on = N MVC on = 9999.9 Under C = 0		64. UTILITIES	2
65. VERTICAL CLEARANCE	Under NC = 0	N	66. GENERAL APPRAISAL & OPERATIONAL STATUS	7 A
67. INSPECTED BY			68. REVIEWED BY	

SIGNED

Name MICHAEL SUTAK

PE Number

SIGNED

Name ANDREW HAUPT

70223

PE Number

DATE 10/12/2012

1 1 1 1 N N N N
SURVEY

DATE 12/31/2012

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 PONDING ALONG RIGHT CURB.

SUPERSTRUCTURE

BEAMS: SMALL CHIPS ON LOWER FLANGES OF FASCIA BEAMS.
DIAPHRAGMS: 5 SF DELAMINATION 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 4" VERTICAL FACE IS
EXPOSED TO FLOWING STREAM WATER (6' DEEP SCOUR HOLE).
SLOPE PROTECTION: SOME STONE 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.
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
SPAN 5 BLOCK 1% OF CHANNEL.

APPROACHES

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

GENERAL

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