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

	A MITTORY COMPRETE (MONOLITHIO)	
1	2 INTEGRAL CONCRETE (MONOLITHIC) 2. WEARING SURFACE Thk 1 Wear Date 8/16/2006	1
1	4. MEDIAN Lanes on 2	
1	6. DRAINAGE 3 SCUPPERS & DWNSPTS	1
1	8. SUMMARY	8
1	7 CONCRETE GIRDER 10. BEAMS/GIRDERS/SLAB	1
1	12. JOISTS/STRINGERS	
	14. FIOOR BEAM CONNECTIONS	
	16. DIAGONALS	
	18. UPPER CHORD	
		1
	30. FATIGUE PRONE DETAIL (E, E')	8
	32. SUMMARY 9 STUB-CAPPED PILE(MULTIPLE ROW PILES)	
1	34. ABUTMENT SEATS Abutment: ON PILING 5 CAPPED COLUMN	1
1	36. PIER SEATS Piers: ON PILING	1
	38. WINGWALLS	1
	40. SCOUR (INSP TYPE - 1,2,3)	2
2	42. SUMMARY	7
	44. ALIGNMENT	
	46. SEAMS	
7	E DID DAD (DUMPED DOCK OD DOCK)	2
	52. PROTECTION	5
	54. SUMMARY	
2	56. APPROACH SLABS	1
1	58. RELIEF JOINTS	
1	60. SUMMARY	6
	62. WARNING SIGNS Maint Resp 1 OHIO TRAN DEPT	4
	64. UTILITIES	3
N	66. GENERAL APPRAISAL & OPERATIONAL STATUS	7 A
	68. REVIEWED BY	9487
PE Number		Number
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1

Name ANDREA PERSANYI

Name YOUSSEF SEIF

Structure File Number 4303040 BRIDGE NUMBER LAK 00084 1888 ON/UNDER 1

DECK

FLOOR: MINOR CRACKS. <1% DETERIORATED.

WEARING SURFACE: MINOR CRACKS. <1% DETERIORATED.

RAILINGS: VERTICAL CRACKS, PEELED TOP COAT ON RIGHT RAIL, SP 2, 5'.

DRAINAGE: ISOLATED PONDING IN RIGHT CURBLINE

EXJTS: LOOSE BOLTS AT FWD DECK ARMOR.

SUPERSTRUCTURE

BEAMS: ONE SMALL CHIP ON LEFT FASCIA BEAM SPAN 3.

DIAPHRAGMS: 5 SF DELAMINATION TO CONCRETE IN BAY #2 OVER
PIER #1. SEE ATTACHED PHOTOS 1 AND 2 DATED 7/28/08.

SUBSTRUCTURE

PIERS: CRACKS IN STEMS. SEE DIVE REPORT DATED 10/27/09. SCOUR: SCOUR HOLES AT UPSTREAM NOSES OF PIERS 2 AND 3 (PROBED).

SLOPE PROTECTION: SOME STONE HAS WASHED AWAY.

CHANNEL

ALIGNMENT: CHANNEL MAKES 90 DEGREE BEND JUST UPSTREAM OF BRIDGE. BRAIDED CHANNEL DURING HIGH FLOW. SEE ATTACHED PHOTO DATED 12/03/09. SOME DIAGONAL FLOW INTO PIER STEMS.

NOTE: USGS STREAM DATA

COLLECTION MONITOR STATIONED ON WEST BANK.

PROTECTION: LARGE STONE AROUND BASES OF PIERS 4, 5 AND 6 HAS PARTIALLY WASHED AWAY. SEE ATTACHED PHOTOS 4-7 DATED 7/28/08.

APPROACHES

PAVEMENT: SOME CRACKS TO REAR CONCRETE APPROACH SLAB.

TRANSVERSE CRACKS FULL WIDTH AT REAR AND LONGITUDINAL CRACKS
AT FORWARD. VEHICLES BOUNCE ONTO AND OFF OF BRIDGE

GENERAL

UTILITIES: SOME MISALIGNMENT OF 16" PIPE IN BAY #3. SPAN 6, CONSTANT LEAKING AT THE RELEIF VALVE. SEE ATTACHED PHOTO 3 DATED 7/28/08.

INSPECTED WITH MIKE GERSTENSLAGER.



Looking upstream, both photos, note changed path of river from previous years.





Braided channel upstream of SR 84.JPG



LAK-84-1888 SFN 4303040



P2: CLOSE-UP OF P1.

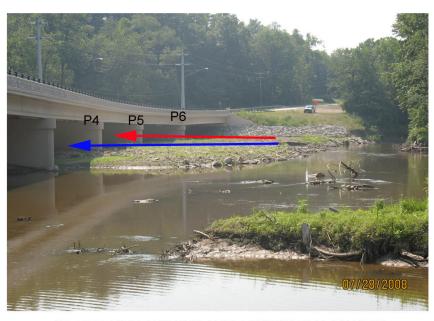
P1: 5 SF DELAM TO CONCRETE DIAPHRAGM.



P3: TYPICAL MISALIGNMENT OF 16" PIPE IN BAY #3



P4: NOTE LOG JAM BETWEEN PIER 5 AND UTIL POLE FOUNDATION. HIGH WATER FLOWS THRU HERE.



LAK-84-1888 SFN 4303040

P5: RED LINE AND BLUE LINE SHOW PATH OF HIGH WATER FLOW.



P7: THIS IS THE PATH OF THE BLUE LINE IN P5. NOTE THE SMALL POND THAT THE ARROW IS POINTING TO. POND IS AS DEEP AS 3 FT.



P6: THIS IS THE PATH OF THE RED LINE IN P5. NOTE SOME WASH OUT TO FINISH SIDE OF PIER #4.