STATE OF OHIO DEPARTMENT OF TRANSPORTATION BRIDGE INSPECTION REPORT

1812	246 ıre File Numb	er	I	BRIDGE NUMBER	CUY 00	322 1534	YEAR BUILT 1	939
DIST			322	TYPE SERVICE	15	CHAGRIN RIV .25 MI W 174#		
DE	СК	out/out 65.1 Deck Ar	rea 9,763 sqft			0 OTHER		
	LOOR	1 REINF CONCRT (PI Left 2 SIDEWALK(>2')			2	2. WEARING SURFACE Thk 2		2
3. C	URBS, SI	DEWALKS AN	-		2	4. MEDIAN Lanes on 4		1
5. F	RAILING		6 STEEL POS	T & STEEL PANEL (DECO	1	6. DRAINAGE ^{3 SCUPPERS & DWNSPTS}		1
7. E	XPANSIO	N JOINTS	2 SLIDING ME	TAL PLATE ANGLE	2	8. SUMMARY		5
	PERSTRU		Max Spans 72		1	2 WELDED BUILT-UP STEEL 10. BEAMS/GIRDERS/SLAB		2
11.	DIAPHRA	GMS or CROS	SFRAME	S	2	12. JOISTS/STRINGERS		
13.	FLOOR BI	EAMS				14. FIOOR BEAM CONNECTIONS		
15.	VERTICA	_S				16. DIAGONALS		
17.	END POS	TS				18. TOP CHORD		
19.	LOWER C	HORD				20. LOWER LATERAL BRACING		
21.	TOP LATE		G			22. SWAY BRACING		
23.	PORTALS	;				24. BEARING DEVICES ^{3 SLIDING (BRONZ}	ZE)	2
25.	ARCH					26. ARCH COLUMNS or HANGERS	Paint Date 1/1/1939	
27.	SPANDRE	EL WALLS				28. PROTECTIVE COATING SYSTE		4
29.	PINS/HAN	IGERS/HINGE	S			30. FATIGUE PRONE CONNECTION	IS	
		D RESPONSE			S	32. SUMMARY		5
	BSTRUCT ABUTMEN	1 GRAVIT	Y		2	1 GRAVITY 34. ABUTMENT SEATS Abutment: ON PILING	3	3
35.	PIERS				2	1 GRAVITY 36. PIER SEATS Piers: ON PILING		1
37.	BACKWAI	LS			2	38. WINGWALLS		2
39.	FENDERS	and DOLPHIN		s = 01 NN NN ns = 2		40. SCOUR	3	2
41.	SLOPE PI	ROTECTION	N NONE-NA	TURAL PROTECTION(GRA		42. SUMMARY	2/30/1899	4
	L VERTS GENERAL	_	N NONE/NO	DT APPLICABLE		44. ALIGNMENT		
45.	SHAPE					46. SEAMS		
47.	HEADWAI	LLS or ENDWA	Culvert Leno	yth 0		Culvert Fill D	Depth 0	
49.						50. SUMMARY		
	ANNEL				2	2 STONE		
51.	ALIGNME	NT	6 (SEE C	ODING GUIDE)	<u>ک</u>	52. PROTECTION 2 STONE		2
		AY ADEQUAC	Υ		1	54. SUMMARY		5
	PROACHE PAVEMEN		2 BITUMINC	US	2	56. APPROACH SLABS		1
57.	GUARDR	AIL	1 STEEL BE	AM	1	58. RELIEF JOINTS		
59.	EMBANK	MENT			1	60. SUMMARY Percent Leg	gal = 150	6
							1 OHIO TRAN DEPT	
<u>6</u> 1.	NAVIGAL	ON LIGHTS	Signs on = 1			62. WARNING SIGNS		1
63.	SIGN SUF	PORTS	MVC on = 9 Under C = 0			64. UTILITIES		
65.	VERTICAL	_ CLEARANCE	Under NC =	0	N	66. GENERAL APPRAISAL & OPERA	ATIONAL STATU	<mark>3</mark> 4 А
67.	INSPECTED	BY			KJB	68. REVIEWED BY	60048	MJM
		SIGNED		PE Number	INITIALS	SIGNED	PE Number	

DATE 9/24/2007

SURVEY

1

- FL: TRANSVERSE LEACHED CRACKS AT 25' SPACING. MOTTLED AREAS.
 EFFLORESCENCE AROUND THE CRACKS. 120 SF OF SPALLS (MOSTLY HAUNCH). FLOOR IS 5-10% DET.
 WEARING SURFACE: WIDE CRACKS.
 SIDEWALKS: HEAVY SCALING OF LEFT WALK.
 EXJTS: PAVED OVER. START EXJT COVER PLATE IS MISSING FROM
 - LEFT SIDEWALK LEAVING A 1" WIDE GAP AT 50 DEGREES F. THERE FINISH EXJT IS CLOSED.

SUPERSTRUCTURE

DECK

- BEAMS: AREAS OF HEAVY RUSTING SECTION LOSS; SEE ATTACHED PHOTOS 1-3 DATED 5/10/05 & 12/5/05. SOME RUSTING THRU HOLES WITH KNIFE EDGED EFFECT IN LOWER FLANGES OF BOTH FASCIA BEAMS; SEE ATTACHED PHOTO 5 DATED 12/6/05.
- XFRAMES: ENDFRAME RUSTING SECTION LOSS WITH RUSTING THRU HOLES; SEE ATTACHED PHOTO 5 DATED 12/6/05.
- BEARINGS: HEAVY RUSTING.
- PCS: 5-10% RUST. RUSTING IN STRUCTURALLY CRITICAL AREAS; SEE ITEM #10 (BEAMS). PCS IS 5-10% DET.

SUBSTRUCTURE

- ABUTS: DELAMINATIONS. DEEP SPALLS; SEE ATTACHED PHOTOS 1,2 & 5 DATED 5/10/05 & DATED 10/6/05. 2 FULL HEIGHT CRACKS IN FINISH ABUT BELOW BAYS #5 AND #7; SEE ATTACHED PHOTO #4 DATED 12/6/05 (CRACK BELOW BAY #7 IS 1/4" WIDE AT GROUND LEVEL). STONE FACING IS MIS-SING BELOW RIGHT BAY AT FINISH ABUT; SEE ATTACHED PHOTO #5 DATED 12/6/05.
- ABUT SEATS: DEEPS SPALLS AND DETERIORATION. APPROACHING SEAT LOSS AT START ABUTMENT MASONRY PLATE #4. 20 SQUARE INCH SEAT LOSS UNDER START ABUT MASONRY PLATE #5 WITH 5 LF OF NEARBY 360 DEGREE EXPOSURE OF LONGITUDINAL REBARS; SEE ATTACHED PHOTOS 2 & 3 DATED 5/10/05. 5 SQUARE INCH SEAT LOSS UNDER START ABUT MASONRY PLATE #6; SEE ATTACHED PHOTO #2 DATED 5/10/05. 1 SQUARE INCH SEAT LOSS UNDER START ABUT MASONRY PLATE #7. A TOTAL OF 15 SQUARE INCHES OF SEAT LOSS UNDER MASONRY PLATES #2R, #5R, & #6R AT FINISH ABUT.
- PIER: CRACKS. SCALING.
- BACKWALLS: DEEP SPALLS. 2 LF OF 270 DEGREE REBAR EXPOSURE OF START BACKWALL IN BAY #6.
- WINGWALLS: FULL HEIGHT CRACKS IN START-LEFT AND FINISH-RIGHT WINGWALLS. CRACK IN START-LEFT WINGWALL IS 1" WIDE AT GROUND LEVEL; SEE ATTACHED PHOTO #6 DATED 12/6/05.
- SCOUR: PARTS OF THE PIER FOOTER ARE EXPOSED; SEE ATTACHED DIVING REPORT DATED 9/24/07.

CHANNEL

ALIGNMENT: RIVER FLOWS INTO START ABUTMENT AND FINISH FACE OF PIER #1. PROTECTION: UNEVEN SETTLEMENT OF STONE SLABS NEAR START

ABUTMENT.

CUY-322-1534 SFN-1812246

CHANNEL

ALIGNMENT: RIVER FLOWS INTO START ABUTMENT AND FINISH FACE OF PIER #1. PROTECTION: UNEVEN SETTLEMENT OF STONE SLABS NEAR START

ABUTMENT.

APPROACHES

PAVEMENT: CRACKS. ASPHALT PATCHES.

GENERAL

SNOOPER INSPECTION ON 4/26/07. UNDERWATER INSPECTION ON 9/24/07.



1812246 P1 12_6_05 det of start abut.jpg



1812246 P3 5_10_05 start abut seat loss at beam 5.jpg



1812246 P2 5_10_05 start abut seat loss.jpg



1812246 P4 12_6_05 finish abut cracks.jpg



1812246 P5 12_6_05 finish abut missing stone facing.jpg

